

## CURRICULUM VITAE

### **IDENTIFICATION**

Name: Max AEBI  
Date/Place of Birth: 1948, born in Switzerland  
Citizenship: Double Swiss/Canadian

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Marital Status: Married / August 15, 1975

Spouse's name: Christine H. Ochsner

Children: Samuel Robert  
Eva Christina

Place of Birth: Bern, Switzerland

### **MAJOR ACHIEVEMENTS**

- ♦ Creation of the first academic Spine Unit in Switzerland at the University of Bern 1984 - 1992
- ♦ Restructuring and merging several services in a major Academic Orthopaedic Department at the Faculty of Medicine McGill University, Montreal (Canada) 1992 - 2002
- ♦ Creation of the MEM Research Center for Orthopaedic Surgery at the University of Bern, an Institution with Research from the Bench (Basic Research), to the Bedside (applied Research) and Beyond (outcome Research) 2003 -
- ♦ Cofounder of the Orthopaedic Department at the Hirslanden-Salem Hospital in Bern, Switzerland
- ♦ Founder and Editor-in-Chief of the European Spine Journal –one of the highest rated scientific journal in musculoskeletal medicine in Europe, the second highest rated Spine Journal worldwide, among the top13 musculoskeletal journal worldwide
- ♦ Cofounder and first Chairman of AO-Spine Foundation ([www.aospine.org](http://www.aospine.org))
- ♦ Cofounder and first Chairman of EUROSPINE Foundation
- ♦ Founder and first Chairman of MEMmedia Foundation ([www.memmedia.ch](http://www.memmedia.ch))
- ♦ Contributor and patent holder in modern Spinal Implant Technology
- ♦ Founder of the MEMdoc platform for Registries

## **EDUCATION**

### **Post-secondary School Education, Training**

<b>Undergraduate:</b>	Literargymnasium Bern Bern, Switzerland Maturitaet Typus B, 1968
<b>Medical/Graduate:</b>	Graduated from University of Bern and Dr. med. 1975  Surgical and Orthopaedic training in Switzerland, England, Canada, USA and France  Board certified General surgeon and Orthopaedic surgeon, FRCSC, AMP/NSEAD  Professor and Chairman Division of Orthopaedic Surgery McGill University, Orthopaedic Surgeon –in Chief, MUHC - (1992-2002)  Professor and Co-Chair, MEM Research Center University of Bern (2003 – present)  Chief of Staff Department of Orthopaedic Surgery, Hirslanden Salem Hospital, Berne (Switzerland)
<b>Military:</b>	Major, Swiss Army Medical Service, 1986 - present
<b>Thesis Topic:</b>	Variations of Cerebral Arteries in Brain Abscesses, 1975
<b>PhD Thesis:</b>	Vascularized Bone Allografts, 1987

### **Postgraduate Training**

#### **a. Research**

1979-1984	Research Program in Experimental Surgery, University of Basel in conjunction with AO-Research Institute, Davos, Switzerland (Supervisors: Prof. M. Allgoewer and Prof. S. Perren) Bone Transplantation
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#### **b. Clinical**

1972	Internship in Surgery Hôpital Regional de Monastir, Tunisia
1974-1975	Internship in Surgery and Gynecology and Obstetrics University of Addis Abeba, Medical Center, Ethiopia (Staffed by the University of Edinburgh, Medical School, Scotland)
1976-1977	Residency in General Surgery Institute of Pathology University of Bern, Switzerland
1977-1978	Residency in General Surgery Department of Surgery Regional Medical Center, Langenthal, Switzerland
1978-1979	Residentship in General Surgery Department of Neurosurgery

Kantonsspital Aarau, Aarau, Switzerland

- 1979-1981      Residentsip in General Surgery  
 Department of Surgery  
 University of Basel, Basel, Switzerland  
 (rotations in abdominal surgery, pediatric surgery, neurosurgery, surgical intensive care and traumatology)
- 1981-1983      Residentsip in Orthopaedic Surgery  
 Department of Orthopaedics  
 University of Basel, Switzerland  
 (rotations in adult and pediatric orthopaedics)
- 1978-1983      Training in Microsurgery  
 Department of Plastic and Reconstructive Surgery  
 Kantonsspital Aarau and Department of Surgery  
 University of Basel, Switzerland
- 1984            Fellowship  
 Traveling Fellow in Great Britain, USA and Canada  
 (sponsored in part by the Swiss National Foundation for Scientific Research)

**c. Other**

- 1999            Certification AMP (Advanced Management Programme)  
 INSEAD, Fontainebleau, France

**PROFESSIONAL CERTIFICATIONS**

- 1975            ECFMG (USA)
- 1975            Physician (Swiss Federal Diploma of Physician)
- 1983            Specialist in Surgery FMH (Foederatio Medicorum Helveticorum)
- 1984            Specialist in Orthopaedic Surgery FMH (Foederatio Medicorum Helveticorum)
- 1992            Specialist in Orthopaedic Surgery (Collège des Médecins du Québec)
- 1995            Fellow (Royal College of Physicians and Surgeons of Canada)

**APPOINTMENTS**

**c. Current Positions**

University

Since 1.2.2011      Professor Emeritus, University of Bern

1/2003 – present      **Adjunct Professor**  
 Department of Surgery  
 Faculty of Medicine  
 McGill University  
 Montreal, Quebec (Canada)

2009 -                Honorary Professor Armed Medical School Rawalpindi Pakistan

Hospital

1/2003 - present     **Chief of Staff**  
Orthopaedic Department Hirslanden Salem Hospital  
Bern, Switzerland

**d. Past Positions**

01/1984 - 04/1984     Oberarzt in Orthopaedic Surgery  
Department of Orthopaedics  
University of Basel, Switzerland

10/1984 -09/1988     Oberarzt  
Department of Orthopaedic Surgery  
University of Bern, Switzerland

1988                     Private Docent (= Tenured Associate Professor)  
Department of Orthopaedic Surgery  
University of Bern, Switzerland

1988-1992             Leitender Arzt (=Surgeon-in-Charge, Spine Division)  
Department of Orthopaedic Surgery  
University of Bern, Switzerland

08/1992 – 12/2002     Professor and Chairman  
Division of Orthopaedic Surgery  
McGill University, Montreal

08/1992 - 05/1997     Surgeon-in-Charge  
Division of Orthopaedic Surgery  
Royal Victoria Hospital  
Montreal, Quebec (Canada)

02/1996 - 05/1997     Acting Chief  
Department of Orthopaedics  
Montreal General Hospital  
Montreal, Quebec (Canada)

05/1997 – 12/2002     Orthopaedic Surgeon-in-Chief  
Department of Orthopaedic Surgery  
Combined Services / Montreal General Hospital & Royal Victoria Hospital  
McGill University Health Center (MUHC)

08/1992 – 12/2002     Consultant Orthopaedic Surgeon  
Montreal Children's Hospital, Montreal  
Jewish General Hospital, Montreal  
Shriners Hospitals for Children-Canada, Montreal

10/1997 – 12/2002     Associate Member  
Department of Oncology  
Faculty of Medicine  
McGill University, Montreal

05/1996 – 12/2002     Consultant Orthopaedic Surgeon  
Quebec Northern Module (Inuit)

1/2000 – 12/2002     Consultant  
Center of Documentation and Continuing Education in Orthopaedic Surgery,  
Maurice E.Mueller Foundation, Bern, Switzerland

1/2003 – 31.1.2011     **Professor and Co-Chair, MEM Research Center and Director**

Institute for Evaluative Research in Orthopaedic Surgery  
University of Bern, Bern, Switzerland

#### ACADEMIC & RESEARCH AWARDS

- 1983 First prize of the German/Austrian/Swiss Trauma Surgery Society for the best scientific presentation
- 1987 SICOT/SIROT-Award (Aebi, Regazzoni, Schwarzenbach)
- 1991 AO/ASIF Recognition Award
- 1992 Zimmer / COA - Professorship, Toronto, Ontario
- 1993 Fonds de la Recherche en Santé du Québec: Chercheur-boursier Clinicien (for 5 years)
- 1994 Zimmer / COA - Professorship, London, Ontario
- 1994 Research Fellowship, Swiss Orthopaedic Society (Steffen T., Aebi M.)  
(In Vitro Perfusion Model of Long Bones)
- 1995 CORE/ACORE Award of the Canadian Orthopaedic Association (Antoniou J., Alini M., Poole R., Aebi M.)  
*"Evidence for Differences in Synthesis Modulation and Matrix Turnover in the Developing and Degenerating Human Lumbar Intervertebral Disc"*
- 1995 Volvo Award in Clinical Sciences (Boos N., Reider R., Schade V., Spratt K.F., Semmer N., Aebi M.)  
*"The Diagnostic Accuracy of MRI, Work Perception and Psychosocial Factors in Identifying Symptomatic Disc Herniation"*
- 1995 McNab / LaRocca Fellowship Award (ISSLS) (Matyjewski M., Steffen T., Krompt P., Aebi M.)  
*"Finite Element Modelling of the Spine Using Massively Parallel Computer Systems"*
- 1996 CORA/ZIMMER Basic Research Award - 2nd prize (Antoniou J., Alink M., Pike B., Steffen T., Baramki H., Aebi M.)  
*"Matrix Integrity and Composition: Important Variables in the Quantitative MR Assessment of the Human Lumbar Intervertebral Disc"*
- 1996 1<sup>st</sup> Prize - Best Research Paper Presentation Award of the Quebec Orthopaedic Association (Antoniou J., Aebi M.)
- 1997 Roger Simoneau Award  
Award of the Quebec Scoliosis Society, May 3  
*"3-D Computer Animation of Spinal Segmental Kinematics"*  
(R. Rubin, T. Steffen, T. Peters, M. Aebi)
- 1998 Royal College Professor, University of British Columbia, Vancouver, B.C.
- 1999 2<sup>nd</sup> Prize – Deutsche Gesellschaft fuer Unfallchirurgie, Posterpreis  
*"Gewinnung autologer Spongiosa: Eine einfache und effiziente Methode"*  
(B. Steiner, M. Hehli, S. Perren, M. Aebi, T. Steffen)
- 2000 Straumann Honorary Lecture of the AO-Veterinary Group, Davos, Switzerland, December

*“New Advances in Spine Surgery”*  
(Aebi, M.)

- 2001 Corresponding Member of the SCHCOT (Sociedad Chilena de Cirugía Ortopédica y Traumatología)
- 2001 *Laudatio* – Lecture given for Prof. J. Dubousset when he received the Maurice E. Mueller Award in Orthopaedic Surgery (100'000 SFr.), Lugano, August 23
- 2002 Key Note Speaker at the World Congress of Orthopaedic Surgery (SICOT), San Diego, USA
- 2002 Ministry of Education, Paris, France granted *Honorary Doctor of Medicine*, at the Faculty of Medicine, Université Méditerranée (honored at the Journée Scientifique et Académique, Marseille, November 2002)
- 2003 Key Note Speaker at the World Spine II Congress, Chicago, USA
- 2003 Corresponding Member of the SCCOT (Sociedad Colombiana de Cirugía Ortopédica y Traumatología)
- 2003 SGO Marathon-Award 2003  
*“Norm values on activities of daily living for the Swiss German population”*  
(Mueller U., Jueni P., Roder C., Busato A., Aebi M.)
- 2004 Key Note Speaker at the Lumbo-Sacral Spine Instability – Surgical-Radiological Dialogue. Diagnostic and surgical topical interests. Università degli Studi di Milano, Milan, Italy, May 29  
*“Minimal invasive technology in lumbar spine surgery”*
- 2004 Key Note Speaker at the Annual Congress of the Deutsche Gesellschaft fuer Unfallchirurgie/Deutsche Gesellschaft fuer Orthopaedie und Orthopaedische Chirurgie, Berlin, Germany, October 21  
*„Bandscheibenersatz – Mythen und Fakten“*  
(Aebi M.)
- 2004 3. St. Vinzenz Orthopaedietag „Die Bandscheibe“, Vienna, Austria, November 13  
*Prof. Spitzzy Gedächtnisvorlesung – „Wirbelsäulen Chirurgie: Quo vadis?“*
- 2005 Conferencia Magistral „Escoliosis Degenerativa del Adulto“, IV Curso Internacional de Avances en Cirurgia de Columna Vertebral «Dr. Eduardo Luque », Centro de Convenciones del Centro Nacional de Rehabilitacion, Mexico City, Mexico, January 21-22
- 2005 AOSpine Masters Course, Master Class in Spine Surgery, Florence, Italy, April 7-9, 2005  
*Keynote Speaker “Facts and myths of disc replacement”*
- 2005 AOSpine Meeting Excellence in Spine, ECM VI/SRN I Spinal Motion Segment: From Basic Science to Clinical Application, July 4-7  
*Keynote Speaker “The Myths and the Facts of Disc Arthroplasty Surgery”*
- 2005 EuroSpine 2005, Barcelona, Spain, September 21 – 24  
*Awards and Honorary Lectures Session - SSE Presidential Lecture*  
*Keynote Speaker “Spine Arthroplasty – Myths and Facts”*
- 2005 3<sup>rd</sup> Trans Atlantic Spine Congress “Innovations in Spine Surgery”, Dallas, Texas and Zurich, Switzerland, November 4 -5  
*Guest lecture: Myths or Facts of Spine Arthroplasty*

- 2005 11<sup>th</sup> Biomechanics and Biotechnologies Meeting, Athens, Greece,  
December 2-4  
*Keynote Speaker "Myths and facts of Disc Arthroplasty"*
- 2006 Swiss Society of Orthopaedic Surgery, September 21  
*Poster Award for*  
*What comprises a good outcome in spinal surgery? A preliminary survey among spine surgeons of the SSE and European spine patients (M. Haefeli, A. Elfering, M. Aebi, N. Boos)*
- 2008 Honorary Member of the Czech Medical Society – Purkinje Society
- 2009 Honorary Consultant – Orthopaedic and Spinal Surgery at Army Medical College and Armed Forces Postgraduate Medical Institute Rawalpindi, Pakistan

## **TEACHING**

### **1. Courses**

- Annual International AO Spine Courses  
Davos, Switzerland, since 1980
- Annual International AO Spine Courses and Seminars  
Worldwide, since 1984
- Annual McGill Orthopaedic Review Courses  
Montreal, Canada, since 1993 – 2002
- AAOS Continuing Education Courses, 1995-
- Arthroplasty Courses, MEM Institute, 2000 (2)
- Arthroplasty Courses, MEM Institute, 2001 (3)
- Arthroplasty Courses, MEM Institute, 2002 (2)
- Arthroplasty Courses, MEM Institute, 2003 (4)
- Arthroplasty Courses, MEM Institute, 2004 (6)
- Live Surgery Symposia: Spine, MEM Institute, since 2000

### **2. Small Group Teaching**

- 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> year group teaching (once per week)  
University of Bern, 1984-1992
- 4<sup>th</sup> year student teaching, McGill University, 1992-2002

### **3. Clinical Teaching**

- i. **Students (undergraduate teaching)**

- Clinical bedside teaching for students in the 4th year (= 1st clinical year)  
Medical School, University of Basel, Switzerland, 1979-1984
- Clinical bedside teaching for students in the 5th and 6th clinical year,  
Medical School, University of Bern, Switzerland, 1984-1992
- Participation in the cycle of the lectures in orthopaedic surgery for the 5th and 6th  
clinical year  
Pathology of the spine: infections, tumors, degenerative disease and trauma, 1985-1992
- Lectures on spinal deformity in the combined cycle of lectures about pediatrics, pediatric  
surgery  
and orthopaedics for the 5th and 6th clinical year, 1985-1992
- Lectures about basics in orthopaedics for the 4th clinical year, 1986-1992
- Lectures in Orthopaedics and Surgical Research, Fifth Year Medical Students, McGill  
University,  
1993-2002
- Faculty Member, Interdisciplinary Lecture Series "From the bench to the bedside", Fifth  
Year  
Medical Students, McGill University, 1993-2002

**ii. Residents (postgraduate teaching)**

- Responsible for the Residency Program (clinical bedside teaching)  
Department of Orthopaedic Surgery, University of Bern, 1985-1987
  - Lectures, Continuing Education Program,  
Department of Orthopaedic Surgery, University of Bern, 1984-1992
  - Lectures in different Continuing Educational Programs  
Other Departments of the University Hospital and other hospitals since 1985
- |                            |  |
|----------------------------|--|
| <u>Internal medicine</u> : | tumors of the locomotor system, revision surgery of<br>total hip replacement |
| <u>Rheumatology</u> :      | deformities of the spine, spinal stenosis                                    |
| <u>Pediatrics</u> :        | muscle dystrophies, scoliosis, kyphosis,                                     |
| spondylolisthesis          |  |
| <u>Surgery</u> :           | trauma of the pelvis and spine   |
- Postgraduate Lecture Cycle in Orthopaedic Surgery  
McGill University, 1992-2002
  - Grand Rounds as Chairman, Orthopaedic Surgery  
McGill University, 1992-2002
  - Resident Group Teaching, 1992-2002

**iii. General post-graduate teaching**

- Instructor and moderator of the Annual Continuing Educational Program of the Swiss  
Orthopaedic Society and of the Annual AO Courses (spine and general courses).
- Instructor and moderator of the Annual Education Course of the Bernese Medical  
Association



- Instructor of the Annual Meeting of the Swiss Society for Internal Medicine (tumors in orthopaedics)
- Organization and moderation of the public lecture cycle about "Back Pain" of the University of Bern, 1987
- Several seminars & colloquium, McGill University, Continuing Education (1995 and 1999 - Geriatric Orthopaedic Symposium, Montreal)
- Spinal surgery for Orthopaedic Surgeons in Abu Dhabi (United Arab Emirates), May 1997
- Spinal surgery for Orthopaedic Surgeons in Abu Dhabi (United Arab Emirates), Feb-March 1998
- Spinal surgery for Orthopaedic Surgeons in Abu Dhabi (United Arab Emirates), July 1998

#### iv. **Fellows**

- Tutor regularly AO Spine Fellows since 1985
- Tutor Spine Fellows supported by the Quebec Government
- McGill University, Montreal, since 1993
- Tutor Research Fellows, Orthopaedic Research Laboratory, McGill University, Montreal, Canada, 1993-2002

#### Post-Doctoral Fellows

Dr. John Thalgott, Las Vegas, Spine Fellowship, Department of Orthopaedic Surgery, University of Bern, 1987

Dr. Dante Marchesi, Research & Spine Fellowship, Department of Orthopaedic Surgery, University of Bern

Dr. Christian Etter, Research & Spine Fellowship, Department of Orthopaedic Surgery, University of Bern

Dr. Kurt Zuber, Spine Fellowship, Department of Orthopaedic Surgery, University of Bern

Dr. Othmar Schwarzenbach, Spine Fellowship, Department of Orthopaedic Surgery, University of Bern

Dr. Peter Seykora, Spine Fellowship, Department of Orthopaedic Surgery, University of Bern

Dr. Hans Mueller, Spine Fellowship, Department of Orthopaedic Surgery, University of Bern

Dr. Norbert Boos, Basic Research and Spine Fellowship, Department of Orthopaedic Surgery, University of Bern

Dr. Eric B. Laxer, Spine Fellowship, Division of Orthopaedic Surgery, McGill University, 1993-1994

Dr. Ghassan Boubez, Spine Fellowship, Division of Orthopaedic Surgery, McGill University, 1994-1995

Dr. Norbert Boos, Spine Fellowship, Division of Orthopaedic Surgery, McGill University, 1995

Dr. Michael Goytan, Spine Fellowship, Division of Orthopaedic Surgery, McGill University, 1996

Dr. Maria Li, Spine Fellowship, Division of Orthopaedic Surgery, McGill University, 1997

Dr. Patrice Papin, Spine Fellowship, Division of Orthopaedic Surgery, McGill University, 1997-1998

Dr. Rahul Vaidya, Spine Fellowship, Division of Orthopaedic Surgery, McGill University, 1998-1999

Dr. Rudy Reindl, Spine Fellowship, Division of Orthopaedic Surgery, McGill University, 2000

Dr. Abdulrazzaq Al-Obaid, Spine Fellowship, Division of Orthopaedic Surgery, McGill University, 2002

Dr. D. Haschtmann, Spine Fellowship, Department of Orthopaedic Surgery, Hirslanden Salem Hospital 2007

Dr. R. Neukamp, Spine Fellowship, Department of Orthopaedic Surgery, Hirslanden Salem Hospital 2008

Dr. Ch. Gauss, Spine Fellowship, Department of Orthopaedic Surgery, Hirslanden Salem Hospital 2009

**v. Medical Professions**

- Orthopaedic surgery for surgical assistants and nurses (2 lessons per week), Nurse college of the University Hospitals, Bern, Switzerland, 1985-1990
- Spinal surgery in the Continuing Education Program of the orthopaedic nurses of the University Hospitals (twice/trimester), University of Bern, 1985-1990
- Spinal pathology, Annual Lecture at the School of Physical and Occupational Therapy, McGill University, 1998-2002

**4. Research Trainees Supervised (Ph.D. or M.Sc., Postdoctoral Fellows, Undergraduate, Summer)**

- Othmar Schwarzenbach, MD, M.Sc., Department of Orthopaedic Surgery, University of Bern, 1984-1987  
M.Sc. Thesis: "Bone transplantation and immunosuppression"
- Peter Richner, MD, Department of Orthopaedic Surgery, University of Bern, 1989-1990  
MD Thesis: "Der acetabulaere Abstuetzring in der Hueftgelenksprothetik"
- Andermatten F., MD, Juffrey S., MD, Department of Orthopaedic Surgery, University of Bern, 1991-1992  
MD Thesis: "Der Einfluss von psychologischen und arbeitsplatzbedingten Faktoren in der Entstehung von Schmerzen beim Bandscheibenleiden"
- Stefan Egli, MD, Department of Orthopaedic Surgery, University of Bern, 1993  
MD Thesis: "Implant failure in spine surgery"
- Norbert Boos, MD, Ph.D., Department of Orthopaedic Surgery, University of Bern, 1990-1993  
Ph.D. Thesis: "Disc degeneration and MRI"
- Peter Gurtner, MD, Department of Orthopaedic Surgery, University of Bern, 1995  
MD Thesis: "Der acetabulaere Abstuetzring in der Revisionschirurgie der Huefte"
- Rubin Rick, Division of Orthopaedic Surgery, McGill University, 1995  
MEng Thesis: (biomedical engineering) "A diagnostic tool to record lumbar spinal motion segment kinematics in low back pain patients. Establishment of a computer based method for routine applications"
- Thomas Steffen, MD, Ph.D., Division of Orthopaedic Surgery, McGill University, 1993-1996  
Ph.D. Thesis: "Spinal biomechanics"

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- John Antoniou, MD, Research Fellowship, Ph.D., Division of Orthopaedic Surgery, McGill University, 1994-1997  
Ph.D. Thesis: "Quantitative biochemical changes in the human lumbar intervertebral disc"
- Hany Baramki, MD, Ph.D., Division of Orthopaedic Surgery, McGill University, 1994-1997.  
Ph.D. Thesis: "The use of motor evoked potentials in the spinal surgery"
- Anthony Tsantrizos, M.Sc., Division of Orthopaedic Surgery, McGill University, 1995-1997  
Master's Thesis: "Biomechanical comparison of anterior interbody fusion devices"
- Antonios Andreou, M.Sc., Division of Orthopaedic Surgery, McGill University, 1995-1997  
Master's Thesis: "Influence of facet joint geometry on lumbar segmental kinematics: an in-vitro and in-vivo study"
- Philip Downer, MD, M.Sc., Division of Orthopaedic Surgery, McGill University, 1996-1998  
Master's Thesis: "Regional bone graft harvest in spine surgery"
- Amer I. EL-Kerdi, MD, M.Sc, MEM Institute for Evaluative Research in Orthopaedic Surgery, 2003 – 2005  
Master's Thesis: "Research & Development of Centralized Clinical Data Management System for Orthopaedic Registers & Clinical Trials"
- Thomas Breuhahn, MD, Institute for Evaluative Research in Orthopaedic Surgery, 2008  
Master's Thesis: "Influence of sex and gender on treatment and outcome of total hip arthroplasty."
- Dieter Bohler, MD, Institute for Evaluative Research in Orthopaedic Surgery, 2008  
Master's Thesis: "Validation of a Short and Comprehensive Sleep Questionnaire."
- Peter Diel, MD, Institute for Evaluative Research in Orthopaedic Surgery, 2008  
Master's Thesis: "The SWISSspine registry: a nationwide multicenter study for health technology assessment of lumbar disc prostheses."
- Wolfgang Reuss, MD, Institute for Evaluative Research in Orthopaedic Surgery, 2008  
Master's Thesis: "SWISSspine - nationwide HTA-Register for ballon kyphoplasty. Methodology and first results."
- Eric Schluessmann, MD, Institute for Evaluative Research in Orthopaedic Surgery, 2008  
Master's Thesis: "SWISspine: The case of a governmentally mandated HTA-Registry for Total Disc Arthroplasty. Methodology and results of cervical disc prostheses."
- Christoph Thier, MD, Institute for Evaluative Research in Orthopaedic Surgery, 2008  
Master's Thesis: "The International Documentation and Evaluation Ssystems IDES: developement and validation of a module for total ankle joint prostheses."

## **SURGICAL ACTIVITIES**

About 6000 procedures performed, evenly distributed in general orthopaedic surgery and traumatology. 7000 procedures performed in spinal surgery.

Present surgical interest and clinical activity: reconstructive surgery (spine), musculo-skeletal tumor surgery, trauma, post-traumatic deformities.

## **INVITED LECTURES**

### **a. McGill University**

- |      |   |
|------|---|
| 1992 | 8th Annual Review/Update in Adult Orthopaedics, McGill University, Montreal (October 2-4)<br><u>Thoracolumbar spine fractures: diagnosis and management</u><br><u>Management of spinal infections</u>   |
| 1992 | General Surgery Grand Rounds, Department of Surgery, Royal Victoria Hospital, Montreal, (November 5)<br><u>Tumor surgery at the spine</u>   |
| 1993 | Continuing Medical Education, Division of Oncology, Department of Medicine, Royal Victoria Hospital, Montreal (April 28)<br><u>Tumors of the locomotor system: an interdisciplinary challenge</u>   |
| 1993 | Medical Grand Rounds, Internal Medicine Department, Royal Victoria Hospital, Montreal, (November 24)<br><u>The role of the disc in low back pain</u>  |
| 1993 | 9th Annual Review/Update on Cervical Spine and Upper Extremity, McGill University, Montreal (November 26-27)<br><u>Surgical approaches and management of degenerative and inflammatory disease of the cervical spine</u><br><u>Surgical management of traumatic upper cervical spine instability</u><br><u>Indications for surgical management of neoplastic conditions of the cervical spine</u> |
| 1994 | McGill Continuing Medical Education, Thursday Evening Lecture Series, McGill University, Montreal (October 20)<br><u>Musculo-skeletal disorders: evaluation, pathology &amp; diagnosis</u>  |
| 1995 | 10th Annual Orthopaedic Review Course: Complex Fractures in the Multiply Injured Patient, McGill University, Montreal (October 27-28)<br><u>Fractures and dislocations of the cervical spine</u>  |
| 1995 | Neurology Grand Rounds, Montreal Neurological Institute, McGill University, Montreal, (November 3)<br><u>Spinal metastases</u>  |
| 1995 | Geriatric Orthopaedic Symposium, McGill University, Montreal (November 4)<br><u>Spinal fractures in the elderly</u>   |

- 1996 Spinal Surgery in the 90's, Montreal Children's Hospital, McGill University, Montreal (March 4)  
The Future of Spine Surgery
- 1999 Old Bones and Joints: A Practical Approach to Osteoporosis, Arthritis, Fractures and Pain in the Elderly, McGill University, Montreal, March 19  
Recognizing Spinal Stenosis: Can anything be done
- 2000 *Guest Lecturer:* The medical and surgical management of hip pathology, School of Physical and Occupational Therapy, McGill University, January 4
- 2001 Surgical and non-surgical medical management of the spine, School of Physical and Occupational Therapy, McGill University, January 12
- 2007 Preparation Course Anatomy, McGill University, July 17-19

**b. Other Universities (Invited speaker)**

- 1984 Princess Margret Rose Hospital, University of Edinburgh, Scotland  
Internal fixation of cervical spine injuries
- 1984 Dupont-Institute, Wilmington Delaware  
Immunosuppression in bone allotransplantation
- 1984 St. Luke's Hospital, Columbia University, New York  
The treatment of cervical spine injuries
- 1985 North Western University Hospitals, Chicago, August 6  
Internal fixation of the thoracolumbar spine injuries
- 1985 Buffalo University, New York State, Department of Orthopaedic Surgery, August 7  
Pedicle Screw devices for internal fixation of the thoracolumbar spine injuries
- 1985 University of Toronto, Department of Orthopaedics, St. Michael's Hospital, August 8  
New trends of internal fixation of spinal injuries
- 1987 University of Munich, West-Germany, Klinikum rechts der Isar, March 14  
Surgical treatment of spine fractures
- 1987 University of Haifa, Israel, April 22-23  
Surgical treatment of cervical spine injuries  
Transpeduncular fixation of the thoracolumbar spine with the internal spinal skeletal fixation system
- 1988 University of Munich, West-Germany, Klinikum rechts der Isar, March  
Spinal fractures due to metastasis: limitation on indications
- 1988 Duke University (Department of Orthopaedic Surgery), Durham, North Carolina, USA, May  
*Guest Lecture:* Modern internal fixation techniques in spinal surgery
- 1988 University of Madrid, Hospital Ramon Y Cajal, Madrid, Spain, November 2-4  
Modern techniques and instrumentation in spinal surgery
- 1989 University of Munich, West-Germany, Klinikum rechts der Isar, March  
Classification of cervical spine injuries

- 1989 Peking University, China, May 11  
Bone allografting: Experimental considerations and models
- 1989 Chengdu Western China University Medical School, May 16  
Devices for internal fixation of the spine  
Bone allografting
- 1989 Shanghai South China University Medical School, May 19  
Total hip replacement: Straight stem prosthesis and acetabular reinforcement devices  
Bone allografting in animal models
- 1989 Ain-Sham University Medical Center, Cairo, October 8-11  
Lumbosacral fixation  
Internal fixation of spinal trauma and degenerative disease
- 1990 University of Munich, West-Germany, Klinikum rechts der Isar, March 17  
The treatment of pathological fractures of the thoracolumbar spine
- 1990 University of Giessen, Dept of Orthopaedic Surgery, Germany, November 16-17  
Immunologische Gegebenheiten bei Allogenen Knochentransplantationen
- 1990 Ministry of Health, Kuwait, Medical and Health Sciences School, University of Kuwait,  
May 22 - June 2 (*Invited Surgeon and Guest Professor*)  
*Guest Lecturer* at Al-Saba University Hospital, Department of Neurosciences (Neurology, Neurosurgery): The surgical treatment of cervical spine injuries in adults  
*Guest Lecturer* at Al-Razi Specialiec Orthopaedic Hospital:  
Options for surgical treatment of spinal tumors  
Pedicular fixation in thoracolumbar spines in trauma and other disorders
- 1992 University of Zurich, Department of Surgery, Switzerland, March  
Classification of spine injuries and the implication for treatment
- 1992 University of Hokkaido, Dept. of Orthopaedic Surgery, Japan, October 19  
The value of surgical treatment of the rheumatoid cervical spine
- 1992 University of Toronto, Division of Orthopaedic Surgery Visiting Professor, Toronto,  
November 30  
An approach to the surgical management of spinal fractures  
The value of surgical treatment in polyarthritis of the cervical spine
- 1993 University of London, Medical School, Division of Orthopaedic Surgery, London, Ontario,  
September 22-24 (*Visiting Professor*)  
The adult degenerative scoliosis  
Cervical Spine Injuries
- 1994 University of Minnesota Medical School, Minneapolis USA, Feb. 17-19  
The adult Scoliosis - a surgical challenge?  
A concept of the treatment of spinal injuries

- 1994 *Visiting Professor* Orthopaedic Hospital, Pr. Danilov, Togliatti, Samarskaja Region, Russia,  
and Orthopaedic Oncological Hospital in Moscow: Russian Academy of Medical Science  
August 21-25
- 1994 University of California San Francisco, *Department of Orthopaedic Surgery*  
*Visiting Professor*,  
San Francisco, Nov. 17-18  
The Disc - Where All Routes Meet  
Adult Scoliosis
- 1995 Albert Einstein Medical College *Department of Orthopaedic Surgery* *Visiting Professor*,  
New York, Feb. 22-23  
A comprehensive classification of thoracic and lumbar injuries  
A concept of treatment of cervical spine injuries
- 1995 Emory University School of Medicine, *Department of Orthopaedics* *Visiting Professor*,  
Georgia, March 13-14  
Adult Degenerative Scoliosis
- 1995 Harvard University, New England Medical Association Fracture Forum, Boston, April 24-25  
Classification of Spine Fractures and Concept of Treatment  
Overview: Cervical Fixation Methods  
Overview: Thoraco-lumbar Fixation
- 1996 9<sup>th</sup> Ste-Justine Paediatric Orthopaedic Review Course (Université de Montréal) in Association with the Montreal Children's and the Shriners Hospital (McGill University)  
Montreal, Quebec, April 10  
Spondylolisthesis - When, where and how to fuse?
- 1996 AO-Symposium UWS, University of Gratz, Department of Traumatology, Graz, Austria, July 5  
Anterior Spine Surgery in Trauma  
USS - Concept and Results
- 1996 Beijing Medical University, *Visiting Professor*, Beijing, China, Nov. 23-25  
Anterior approach in cervical myelopathy and degenerative spine disease
- 1997 *Visiting Professor & G.W.N. Eggers Lecturer*, The University of Texas Medical Branch (UTMB) at Galveston, Galveston, Texas, March 20-22  
Adult degenerative scoliosis  
The Disc: where all routes meet
- 1997 *Visiting Professor*, Ministry of Health of the United Emirates, Abu Dhabi, May 23-27
- 1997 *Visiting Professor*, PennState University, Hershey, Pennsylvania, Sept. 3-4  
Adult scoliosis  
Disc: where all routes meet
- 1997 *Visiting Professor*, Hong Kong University, Dept. of Orthopaedic Surgery, Sept. 26-30
- 1998 *Visiting Professor*, Ministry of Health, United Arab Emirates, Abu Dhabi, Feb. 22 - March 1



- 1998 *Royal College Visiting Professor*, University of British Columbia, Vancouver, B.C., May 27-29  
Royal College Lecture: [Biology of disc degeneration](#)
- 1998 *Visiting Professor*, Ministry of Health, United Arab Emirates, Abu Dhabi, July 20-26
- 1999 *Visiting Professor*, Combined Departments of Neurosurgery and Orthopaedic Surgery, Temple University, Philadelphia, Pennsylvania, February 25-26  
[Degenerative lumbar scoliosis](#)
- 1999 *Guest Lecturer*, Combined Departments of Neurosurgery and Orthopaedic Surgery, University of Manitoba, Winnipeg, Manitoba, November 26  
[Instrumentation of deformity in osteoporosis](#)  
[Treatment of osteoporotic fractures of the spine](#)
- 2000 *Guest Lecturer*, Department of Orthopaedic Surgery, University of Ulm, Germany, May 2  
[Hip-Arthroplasty Documentation in the MEM Institute for Documentation](#)
- 2000 University of Barcelona, Barcelona, Spain, November 23  
[European Hip Registry](#)
- 2001 *Guest Lecturer*, Cervical Spine Seminar, Department of Orthopaedic Surgery, H. Heine University of Duesseldorf, Germany, May 17  
[Long stabilization and fusion in cervical spine pathology](#)
- 2003 *Invited Presidential Guest Lecturer*, 48<sup>o</sup> Congreso Nacional SCCOT, Bogota, Columbia, April 30 - May 3  
[Costos en cirugía ortopédica: cómo hacer para impactar los programas nacionales de salud?](#)
- 2003 *Guest Lecturer*, Registries and Quality Assessment Programs for End-stage Renal Disease: Successes and Pitfalls in Europe, University of Bern, Switzerland, February 6, 2003  
[Medical Registries: Experience at the MEM-Foundation](#)
- 2003 *Harold Frost Visiting Professor*, Department of Orthopaedics, Henry Ford Hospital, Detroit, Michigan, May 7
- 2003 University Hospital, Medical School Bombay, India, July 2  
*Guest Lecture - [Adult scoliosis](#)*  
*Guest Lecture - [Myelopathy](#)*  
*Guest Lecture - [Minimally invasive concepts in spine surgery](#)*
- 2007 University of Bern, Switzerland, January 30, 2007  
[Collegium generale: Socio-economic consequences of high-tech medicine](#)
- 2007 University of Crete, Greece, March 2-3, 2007  
*Guest Lecture - [Challenges in spine and orthopaedic surgery for the future](#)*
- 2008 University of Crete, The Creta Maris Conference Center, Hersonissos, Heraklion/Greece, July 25<sup>th</sup>- August 1<sup>st</sup>, 2008 and Cleveland Clinic/USA  
1<sup>st</sup> European Spine Review and Cadaver – Hands-On Course 2008  
- [Dorsal cervical fixation techniques](#)  
- [Clinical strategies and cases](#)  
- [Lumbosacral pelvic fixation techniques](#)  
- [Indications for Upper cervical spine fixation](#)  
- [Cervical Myelopathy: Indications and contraindications for surgery.](#)  
- [Best surgical approaches: Anterior, posterior or combined](#)  
- [Bone physiology, bone grafting and alternatives](#)

- Classification of spinal fractures: Thoracolumbar and cervical
- Clinic strategies and cases

- 2008 *Visiting Professor*, University of Kuwait, Nov. 10-14, 2008
- 2008 *Visiting Professor*, Armed Forces Medical College, Rawalpindi/Pakistan, April 16-21, 2008:
- 2009 *Visiting Professor*, University of Zurich, Department of Orthopaedics, Switzerland January 10, 2009  
What is new in the diagnostic and therapy of cervical spine injuries
- 2009 GANGA Operative Spine Course, Ganga Hospital, Coimbatore/India, 30<sup>th</sup> April – 3<sup>rd</sup> May 2009, Chairperson: Adult Scoliosis; Plenary Lecture: The Industry and the spine Surgoen-Collaboraton or Nexus?
- 2009 University of Creta, Creta Club Spine Medicine Lectures, Montego Bay/Jamaica  
Juni 4-7, 2009  
- Degenerative spondylolisthesis, when do we fused?  
- Surgical Management of the Rheumatoid Spine
- 2009 *Visiting Professor* September 6-17, Pakistan

### c. Other Invited Lectures

- 1983 Combined Meeting - SICOT International Committee and Swiss Association for Orthopaedic Surgery, Bern, November 4  
Results of 100 internal fixation of fractures and dislocations of the cervical spine
- 1983 25<sup>th</sup> Anniversary of the Swiss AO, Davos, December 5  
Auto- and allotransplantation of primarily vascularized tibia segments in a canine model
- 1984 Fall Conference of the Swiss AO, Bern, October  
Neurological recovery in relation to the timing and methods of surgical treatment of cervical spine injuries
- 1985 Sudeck Society, Hamburg, West-Germany, September 26-28  
Allogenic bone transplantation in animal models  
Combined bone/musculocutaneous flap plastics in big segmental bony defects  
Vascular pedicled bone transplantation in femoral head necrosis
- 1986 International Symposium "New Horizons in Spinal Surgery", Ottawa, Canada, May 8-12  
*Guest Lecturer:* Treatment of thoracolumbar fractures and other spinal disorders with the internal skeletal fixation system
- 1986 Annual Meeting of the Dutch Association of Orthopaedic Residents, Amsterdam, Holland, September 27  
Internal fixation techniques of vertebral fractures
- 1986 Combined Annual Conference of the Union of Swiss Surgical Societies, Lucerne, Switzerland, September 18-20  
Methods of reduction and stabilization in cervical spine injuries
- 1986 Swiss Society for Manual Medicine, Interlaken, Switzerland, November 27  
Treatment of cervical spine instabilities

- 1987 Swiss Society of Orthopaedic Surgery, June 11-13  
Posterior stabilization and correction of adult lumbar scoliosis
- 1987 SICOT/SIROT - Award paper 1987, Munich, West-Germany, August 1987  
Segmental bone allografting
- 1988 Swiss Rheumatological Society, Bernese Section, Bern, Switzerland, November 10  
Orthopaedic surgical treatment of spondylolysis and spondylolisthesis
- 1989 Controversies in Spinal Surgery, Minneapolis, Minnesota, USA, June 25-26  
Lower lumbar and sacral fractures: evaluation and treatment  
Cervical spine fractures: conservative versus surgical treatment
- 1989 9<sup>th</sup> Western Pacific Orthopaedic Association Congress, Singapore, November 22-26  
Internal fixation in thoracolumbar spine trauma  
Surgical treatment of upper and lower surgical spine injuries
- 1990 The Cervical Spine - The New Challenge Symposium, San Antonio, Texas, USA, April 25-29  
Biomechanics of cervical spine instrumentation: clinical application  
Posterior instrumentation in the upper and lower cervical spine  
Classification of cervical spine fractures and dislocations  
Surgical treatment of odontoid fractures  
Anterior plate instrumentation of the lower cervical spine
- 1990 Annual Meeting of the Thailand Orthopaedic Association, October 15-18  
The multioperated back
- 1991 Seminar on Treatment of Surgical Spine Disease. Washington University School of Medicine, St. Louis, April 10-13  
Spine fractures  
AO - techniques in cervical spine fractures  
Screw techniques in the cervical spine  
Lumbar translaminar screw fixation
- 1991 Instructional Course of the Instructional Society for the Study of the Lumbar Spine (ISSLS), Zuerich, Switzerland, May 9 – 12  
The surgical treatment of degenerative lumbar spine disease
- 1993 Royal Victoria Hospital Oncology Rounds, Montreal, Quebec, April 28, 1993  
Surgical management of bone tumors - primary and secondary
- 1993 SICOT meeting 1993 Seoul, Korea  
The indication and technique of posterior surgery in the treatment of the thoraco-lumbar spine injuries
- 1994 Invited guest speaker of the Alpha Group (a grouping of the Canadian academic Chairmen and Professors), Toronto, Canada, February 7-13  
The Scoliosis from the adolescence to the adult life - a continuum (together with Hubert Labelle)  
The Disc - Where All Routes Meet
- 1994 XXII Congreso Nacional de Ortopedia, Mexico, May 1-7  
A concept of the surgical treatment of cervical spine injuries with emphasis on the anterior plating  
The surgical treatment of adult scoliosis

- 1994 Japanese Orthopaedic Association Annual Meeting, Sendai, May 12-14  
Concept of posterior surgery in thoraco-lumbar spine trauma
- 1994 Heritage & Horizons: A Celebration of the Centennial of the Royal Victoria Hospital, McGill University, Montreal, June 8-12  
Spinal surgery: The 21st Century
- 1994 Internationales Symposium Spinale Stenose und Instabilitaet der Lendenwirbelsaeule, Bremen, Germany, September 16-17  
Adult scoliosis and spinal stenosis
- 1995 AAOs Spine Course: "Debating Complex Issues in Spine Surgery", San Francisco, April 5-8  
Soft Tissue Injuries: The Orthopaedist's Dilemma  
Lower Cervical Spine Fractures: Anterior and/or Posterior Approach, Wires or Plates?
- 1995 2<sup>nd</sup> GICD Forum on "Thoracolumbar fractures", Venice, Italy, May 11-13  
Acute fractures: Anterior or posterior approach  
Long or short instrumentation  
Intraop vs preop reduction  
Emergency surgery
- Post-traumatic deformities: Long or short instrumentation  
Double approach?
- 1996 2<sup>o</sup> Corso AO Di Chirurgia Del Rachide, Rome, Italy, May 23-26  
Scoliosi Nella Colonna Artrosica  
Fissazione USS
- 1996 The Montreal General Hospital 175th Anniversary Community Conference Day "To Your Health", Montreal, Quebec, Canada, June 4  
Spine Surgery - Past, Present, Future
- 1996 XIX Congresso Nazionale G.I.S., Società Italiana Di Patologia Vertebrale, Torino, Italy, June 7-8  
Artrodesi Intersomatica A Più Livelli
- 1996 30<sup>o</sup> Congresso Brasileiro De Ortopedia E Traumatologia, Curitiba, Brazil, July 25-30  
A Concept of Treatment of Cervical Spine Injuries  
Fracture of Cervical Spine (C5-C6) with Neurological Lesion  
Surgical Treatment of Degenerative Disease of the Cervical Spine  
Surgical Treatment of Thoracolumbar Fractures by a Predominant Posterior Approach
- 1996 SICOT 96 Amsterdam, Amsterdam, Netherlands, Aug. 18-23  
Cervical Myelopathy: Anterior Approach
- 1996 4<sup>th</sup> North European Spine Courses for Surgeons, Nottingham, U.K., Sept. 2-6  
Concepts of Management in Cervical Trauma
- 1996 146<sup>th</sup> Annual Meeting of the Congress of Neurological Surgeons, Montreal, Quebec, Canada, Sept. 28-Oct. 3  
Symposium "Thoracic and Lumbar Spine Sagittal Alignment"  
Management of Post-Traumatic Deformities
- 1996 Annual Symposium of the Quebec Orthopaedic Association, Montebello, Quebec, Oct. 3  
Disque Intervertebral: Pathophysiologie

- 1996 Minimally Invasive Approaches to the Spine, State of the Art and Future Innovations, Zurich, Switzerland, October 15  
Is the replacement of the degenerated or aged disc a biochemical or mechanical problem?
- 1996 Spine Course, Department of Health and Medical Services, Dubai, United Emirates, Oct. 22-24  
Cervical Spine: Trauma: Classification & concepts of management cervical trauma  
Upper Cervical Spine: Anterior odontoid screw fixation  
Lower Cervical Spine: Indications for internal fixation in the degenerative cervical spine  
Thoracolumbar Spine: Trauma: Anterior / posterior surgery - thoracolumbar spine trauma  
Degenerative Spine: Degenerative scoliosis  
Thoracolumbar Spine: Deformity: Universal Spinal System: a new concept  
Disorders of the Spin: Challenges: Infections of the spine  
Intervertebral cages
- 1996 "96 Shanghai International Symposium on Spine, Shanghai, China, Nov. 26-29  
Thoraco-lumbar fracture treatment and classification  
A new concept of correction and stabilization of idiopathic scoliosis
- 1997 1er Curso AO De Columna Vertebral, Santiago, Chile, April 3-5  
Columna Thoraco-Lumbar Traumática: Clasificación  
U.S.S. Un Nuevo concepto De Tratamiento En Deformidades  
Columna Cervical Traumática: Principios Del Tratamiento  
Columna Cervical Degenerativa: Cirugía En Artritis Rheumatoidea Cervical
- 1997 Segundo Seminario Y Workshop AO De Columna, Córdoba, Argentina, April 7-9  
Trauma: Clasificación  
Deformidades Vertebrales: Nuevos Conceptos de Tratamiento con USS  
Trauma Cervical: Principios de Tratamiento  
Patología Sistémica: Artritis reumatoidea
- 1997 AcroMed's Advanced Spine Fellows Course, Montreal, Quebec, August 7-10  
The Disc - Where All Routes Meet
- 1997 5<sup>th</sup> International Spine Course, Nottingham, Great Britain, September 8-11  
The Disc: Where All Routes Meet
- 1997 91<sup>st</sup> InterUrban Orthopaedic Society Annual Meeting, Montreal, Quebec, September 18-21  
The Disc: An Interdisciplinary Research Area
- 1997 The 2<sup>nd</sup> Middle East Spine Group Meeting, Cairo, Egypt, September 24-26  
Fractures of the Spine: Classification of Fractures of the Thoracolumbar Spine  
Spinal Instability: Adult Scoliosis
- 1997 AO/ASIF Spine Course, Hong Kong, September 26-28  
Upper Cervical Spine: Posterior C1-C2 screw fixation: indications & techniques  
  
Practical Exercise: Odontoid Screw Fixation  
C1-C2 Posterior screw fixation  
Occipital - cervical fixation

Anterior Cervical Fixation of Lower Cervical Spine:  
AO classification of cervical trauma  
Anterior plate fixations in management of cervical trauma  
Surgical approach to management of cervical rheumatoid arthritis

Thoracolumbar Trauma/Reconstruction:  
AO classification of thoracolumbar fractures

Lumbar Reconstruction:  
Biomechanics of anterior column support

Minimally Invasive Spinal Surgery (MISS):  
Least invasive - direct dissection retroperitoneal approach to the lumbar spine

Deformity:  
AO philosophy of scoliosis reduction  
Concepts and management of lumbar degenerative scoliosis

- 1997 AO/ASIF Board of Trustees Meeting, Phuket, Thailand, September 30 – October 4  
News from specialty group: Spine
- 1997 4<sup>o</sup> Congreso Sociedad Ibero-latinoamericana de Columna Vertebral (SILAC), Cartagena, October 8-11  
 Trauma Controversies: Classification: Is the Three Column Concept Still Useful?  
 Trauma: Case Presentation & Discussion: Case No. 1  
 Infection Symposium: Is there a Contra-Indication for the Use of Implants in Infections of the Spine?  
 What is New in Disc Disease: Biomechanics and Biochemistry  
 Controversies on Scoliosis: Is it Possible to Derotate the Spine with Sublaminar Wiring?
- 1997 VI Congresso Da Sociedade Brasileira De Patologia Da Coluna Vertebral, Gramado, Brazil, November 12-15  
Lecture: Post-traumatic kyphosis rebalancing of the sagittal alignment  
Case Discussion: Fracture and dislocation treatment of the thoracolumbar spine  
Lecture: The Disc: Where All Routes Meet  
Case Discussion: Spine deformities  
Round Table: Discussions on indications, techniques and limits of endoscopic spine surgery: Minimally or less invasive spine surgery  
Workshops: Use of the USS for lumbosacral and thoracolumbar fusion  
Use of the USS for cervical fusion with pedicle screw and anterior cervical plating  
Use of the USS in deformities
- 1997 Third Annual Course on Spinal Disorders, Montreal, November 21-22  
C-spine fractures and dislocations  
Cervical spondylosis, cervical myelopathy and radiculopathy: surgical treatment
- 1998 AO-Wirbelsaeulenkurs Fuer Aerzte, Giessen, Germany, February 19  
Die Bandscheibe: Wo sich Biomechanik und Biochemie treffen
- 1998 2<sup>nd</sup> AO Spine Course in Argentina, Buenos Aires, March 24-27  
 Thoracolumbar Spine Trauma: Classification of thoracolumbar injuries  
Post-traumatic deformity

Degenerative Lumbar Spine: Degenerative spine: Combined anterior/posterior approach  
Deformities: Kyphotic deformities  
Spondylolisthesis: Spondylolisthesis: Anterior vs posterior surgery  
Degenerative Cervical Spine: Cervical spine surgery in rheumatological patients

- 1998 Spinal Pain Conference, Vancouver, BC., May 29  
Debate: The surgical indications for mechanical back pain: a 35-year-old athlete with slowly progressive L4/5 disc degeneration: For Instrumented Fusion
- 1998 53<sup>rd</sup> Annual Meeting of the Canadian Orthopaedic Association, Ottawa, June 20  
Cervical Spine Trauma: Lower Cervical Spine Fracture - Decision-Making as to Patient Selection, Surgical Approach and Appropriate Technique

- 1998 Minimally Invasive Spine Symposium, Innsbruck, Austria, June 23  
Lumbar Fusion: Anterior, posterior or both?
- 1998 5<sup>th</sup> Annual Meeting of the Society for the Study of Surgical Technique for Spine & Spinal Nerves (SSSTSS), Tokyo, Japan, September 4-6  
Complications in Cervical Spine Surgery and Their Management  
The USS: Concept, Indication & Technical Issues
- 1998 3<sup>o</sup> Corso AO Di Chirurgia Del Rachide, Varese, Italy, September 23-26  
Rachide Degenerativo Lombo-Sacrale: Cages anteriori  
Scoliosi: Applicazione anteriore dell'USS  
Aggiornamento su: La chirurgia mini-invasiva  
Traumatologia Del Rachide Toraco-Lombare: Classificazione AO delle fratture vertebrali  
Placca AO anteriore  
Traumatologia Del Rachide Cervicale: Avvitamento dell'odontoide  
  
Practical Exercise: Fratture thoraco-lombari: Fissatore USS, Placca AO Anteriore, VentroFix
- 1998 AO Spine Course, Caracas, Venezuela, November 4-5  
Cervical Arthritis. Surgical Treatment  
A.L.I.F. and M.I.S.S. Indication
- 1998 Annual Meeting of the Ontario Orthopaedic Association, Toronto, Canada, November 6-7  
The Disc - Where All Routes Meet  
Classification of thoraco-lumbar injuries and implication for treatment  
Adult thoraco-lumbar spinal deformities - A diagnostic and surgical challenge
- 1998 XVIII Annual Congress of Portuguese Orthopaedic Society, Porto, Portugal, November 9-21  
Concept and management of cervical spine injuries  
PLIF in degenerative lumbar spine  
Instability of cervical spine  
Surgical decision making in acute thoracolumbar spine injuries
- 1998 6<sup>th</sup> GCC Orthopaedic Association Conference, Doha, Qatar, December 5-8  
Classification of thoraco-lumbar spine injuries  
Management of cervical spine injuries  
Complications in cervical spine injuries  
Less invasive spine surgery (LISS)
- 1999 Quebec Orthopaedic Association Annual Meeting, Cantons D'Orford, Quebec, March 20  
Pathologies of the Cervical Spine: Treatment of C1 and C2 fractures
- 1999 AO/ASIF Comprehensive Spine Course, Antwerp, Belgium, May 3-6  
AO spine fracture classification  
Odontoid screw fixation  
LISS with retractor system
- 1999 Cours AO Marseille 1999, Cours d'Ostéosynthèse de la colonne vertébrale, Marseille, France, May 6-8  
Scolioses idiopathiques: instrumentation postérieure  
Scoliose degenerative du rachis lombaire
- 1999 Middle East Regional Spine Course, Larnaca, Cyprus, June 10-13



- 1999 5<sup>th</sup> International Congress on Spine Surgery & 7th European GICD Forum, Istanbul, Turkey, June 20-24  
Degenerative change of isthmic spondylolisthesis
- 1999 7<sup>th</sup> North European Spine Course, Nottingham, U.K., September 1-3  
*Guest Lecture:* Where are we heading?
- Degenerative Cervical Spine: Rheumatoid neck  
 PLIF with cage: The use of biomaterials in fusion  
 Minimally Invasive Anterior Lumbar Surgery: Development of the Synframe Cage surgery  
 Reconstruction of Thoracolumbar Trauma: Is the AO classification helpful in clinical practice
- 1999 4<sup>th</sup> Middle East Spine Meeting, Amman, Jordan, September 18-20  
*Guest Speaker:* Management of adult scoliosis  
Management of degenerative cervical spine  
Surgical management of spinal tumours
- 2000 1<sup>st</sup> AO Spine Course, Santiago, Chile, November 8-10  
 Trauma cervical bajo: Fractura del ahorcado  
 Avances en cirugía de columna cervical: Resultados preliminares con espaciadores  
 Enfermedades inflamatorias: Manejo quirurgico  
 Miscelaneos: Complicaciones postquirurgicas
- 1999 Montreal Spine Course 1999, Montreal, Quebec, November 19-20  
Traumatismes de la colonne cervicale haute (occiput à C2)  
Mise à jour sur le développement de nouveaux implants pour la colonne cervicale et lombaire
- 2000 12<sup>th</sup> Annual Ski with the Spine Center, Whistler, BC., January 15-21  
Lower cervical spine trauma evaluation and treatment options  
Occipital-cervical fusion techniques
- 2000 AO ASIF Comprehensive Spine Course, Breckenridge, Colorado, March 9-12  
*Guest Lectures:* Principles and management in cervical trauma  
The usage of classification systems in thoracolumbar trauma:  
rationale and prognosis  
*Lectures:* Minimally invasive spine surgery  
Subaxial instability: treatment concepts
- 2000 Failures of Spinal Surgery: A Tribute, Baltimore, MD, May 12-14  
Spinal infections: post-operatives and others  
Cages-types-limitations: real results
- 2000 AO-Seminar mit praktischen UEbungen "Lumbale WS-Deformitaeten und Erkrankungen"  
 Essen, Germany, May 18-19  
Die Pathologie der Bandscheibe  
Less invasive spine surgery  
Failed instrumented fusion
- 2000 VI Incontro Italian Chapter, AO Alumni Association, Gargano (Foggia) Italy, June 3  
*Guest Lecture:* Nuovi sviluppi della Chirurgia del Rachide

- 2000 Annual Meeting of the Canadian Orthopaedic Association, Edmonton, Alberta, June 4  
*Invited Lecturer:* Required improvement for future spinal instrumentation
- 2000 9<sup>th</sup> Annual Scientific Meeting, European College of Veterinary Surgeons, Bern, Switzerland, July 7-9  
*Guest Speaker:* Recent development in spinal surgery in humans
- 2000 5<sup>th</sup> International Meeting in Spine Surgery, Puerto Vallarta, Mexico, July 26-29  
Treatment of degenerative lumbar scoliosis  
Treatment of the rheumatoid arthritis of the cervical spine  
Concept of minimally or less invasive surgery of the thoracic and lumbar spine  
Classification of the thoraco-lumbar spine injuries
- 2000 Mini Symposium AO/Japanese University Chairs in Orthopaedic Surgery, MEM Foundation, Bern, Switzerland, August 22  
Minimal Invasive Spine Surgery
- 2000 Swiss Society of Orthopaedic Surgeons Annual Meeting, Davos, Switzerland, September 7-9  
*Key Note Lecture:* New development in orthopaedic documentation and education
- 2000 AO/ASIF Spine Masterclass for Surgeons, Nottingham, Great Britain, September 13-15  
*Key Note Lecture:* Are new developments in spinal surgery possible?
- 2000 CSR Congressi, Castelnuovo Berardenga, Italy, September 28 - October 1  
New Trends in Spinal Surgery: Grafts and bone substitutes
- 2000 Open Presentation to the Senate of the University of Bern, Bern, Switzerland, October 5  
*Invited Speaker:* MEMF in the new millennium
- 2000 2<sup>nd</sup> Annual Meeting of the Spine Society of Europe, Antwerp, Belgium, October 10-14  
European spine registry
- 2000 Hôpital St-Louis, Paris, France, October 21  
*Guest Lecturer:* The European hip registry
- 2000 85<sup>th</sup> Annual Meeting of the Italian Orthopaedic and Trauma Society (Italian Chapter of the AO), Torino, Italy, October 26  
*Guest Speaker:* AO-Spine
- 2000 6<sup>th</sup> National Congress on Spinal Surgery and Basic Research, Kunming, China, Nov. 9-12  
*Guest Lecture:* Current trends in treatment of atlanto-axial disorders of the spine
- 2000 Dutch AO Spine Course, Nijmegen, November 17  
Less Invasive Spine Surgery
- 2000 Galeazzi Institute, Milan, Italy, November 23  
*Guest Lecture:* Internet in Orthopaedics
- 2001 1<sup>st</sup> Annual Meeting of the Canadian Spine Society, (University of Calgary, Faculty of Medicine), Mont-Tremblant, Quebec, March 22-24  
*Guest Lecture:* Degenerative adult scoliosis: classification, evaluation, indication and surgical techniques

- 2001 International Innex™ Launch Meeting, Crans-Montana, Switzerland, March 29-31
- 2001 Annual Meeting of the Swiss Neuropaediatric Society, Biel, Switzerland, April 19  
Possibilities of Modern Spine Surgery in Neuromuscular Scoliosis
- 2001 AO Spine Seminars, China,  
- Beijing Third Medical School, University of Beijing, April 21-22  
- Shanghai, Military Medical School, University of Shanghai, April 23-24  
Spinal Trauma
- 2001 Annual Meeting of the Belgian Orthopaedic Association, May 4  
*Guest Lecture:* The European Hip Registry
- 2001 XXIV GIS National Congress of the Italian Society of Spine Surgery, Milan, Italy, May 17-19  
Round Table: Bone Graft Substitute in Lumbar Spine: State of the Art: Bone Substitutes in Spinal Surgery: Research Perspectives  
IIIrd Session: Scoliosis Revision Surgery: Treatment of Flat Back Syndrome after Scoliosis  
Surgery in Adults: Need for Revision
- 2001 4<sup>th</sup> Brazilian AO Spine Course, Curitiba, Brazil, June 14-16  
- High Cervical Spine Trauma: Hangman fracture  
- Lumbar Spine Degenerative: Disc surgery – is fusion indicated?  
- Cervical Spine Degenerative: Rheumatoid Arthritis  
- Synframe: MISS of Lumbar Spine  
- Are Cages the Future?
- 2001 4<sup>th</sup> Combined Meeting of the ORS, CORS, EORS and JORS, Rhodes, Greece, June 1-3  
European Implant Register
- 2001 EFFORT Meeting, Rhodes, June 3-6  
The Concept of the European Implant Registries  
Swiss Orthopaedic Society Annual Meeting, Lugano, August 23-25  
Laudatio for Prof. J. Dubousset on the occasion of the Maurice E. Mueller Award
- 2001 3<sup>rd</sup> Annual Meeting of the Spine Society of Europe (EuroSpine 2001), Goeteborg, Sweden, Sept. 4-8  
An Internal Based European Spine Register  
Concept of MISS with Synframe
- 2001 2<sup>nd</sup> Meeting on New Trends in Spinal Surgery, Abbey of Spineto, Sarteano, Italy, Sept. 27-30  
Opinion on Spondylolisthesis
- 2001 First International Symposium on Advanced Spine Surgery Update on "Hardware & Software", Milan, Italy, October 11-13  
European Registry of the Instrumentations  
Anterior Stabilization C1-C2  
Anterior Stabilization in Lumbar Spine
- 2001 Swiss Spine Institute International Symposium - "New Horizons in Spinal Surgery – Bone Substitutes in Spinal Fusion"  
Zurich, Switzerland, Oct. 19-20

Anterior Interbody Fusion with TCP-TGF Beta<sub>3</sub> – Prefilled Cages in a Baboon Test Model

- 2001 Swiss Orthopaedic Society - Continuing Education Seminar: Quality Assessment in Orthopaedic Surgery, Basel, Switzerland, November 10  
*Guest Speaker:* Interest Based Documentation
- 2001 Congress of the Chilean Orthopaedic and Traumatology Society, Santiago, Chile, Nov. 21-25  
*Guest Speaker:* Management of Spinal tumors
- 2001 Aktuelle Wirbelsaeulen Chirurgie, Einladung zu einer fachuebergreifenden Standortbestimmung Berlin, Germany, December 5  
Less Invasive Spinal Surgery
- 2002 College of Orthopaedics, Guadalajara, Mexico, January 18  
*Guest Lecturer:* Traumatic Spine
- 2002 Minimal Invasive Spine Surgery Symposium (MISS), University of Queensland, Brisbane, Australia, February 22-24  
*Guest Lecturer:* Concepts of Minimal Invasive Spine Surgery  
New Concepts in Bone Harvesting + Bone Substitute in Spine Surgery  
Web Based Spine Registry
- 2002 Symposium "Debating Issues: The Degenerative Thoracolumbar Spine", Denver, Colorado, March 16  
Intervertebral Spacers: Rationale for Trapezoidal Spacers  
Case Study: Trauma  
Live Demonstration: SynFrame, Trepine and FRA  
Spondylolisthesis: Rationale for Reduction
- 2002 International Innex™ Launch Meeting, Crans-Montana, Switzerland, March 29-31  
European Spine Register
- 2002 Masterclass Wirbelsaeule, Innsbruck, Austria, April 4  
Korrekturingriffe bei postraumatischen Fehlstellungen und Instabilitaeten
- 2002 Congress on BioTechnologies for Spinal Surgery, Halle, Germany, April 11-13  
Bone Substitutes and Growth Factors for Spinal Fusion  
Spine Data Acquisition Models: An Internet Based European Spine Registry ("Spine Tango")
- 2002 AO Spine Symposium – Degenerative Lumbar Spine, Nijmegen, Netherlands, May 31  
Online European Spine Registry  
St.Maartenskliniek: AO Spine Centre of Excellence
- 2002 SICOT/SIROT 2002, XXII World Congress, San Diego, California, August 30  
*Guest Speaker:* International Orthopaedics – Contrasts and Challenges
- 2002 4<sup>th</sup> International Symposium "The Aging Spine", Basel, Switzerland, October 11-12  
*Guest Lecture –* Future Development in Spinal Surgery with Special Reference to the Aging Spine
- 2002 4<sup>o</sup> Corso AO Di Chirurgia Del Rachide, Palermo, Italy, October 31-November 2  
Lezione magistrale: Il concetto di chirurgia minivasia  
Fratture toraco-lombari: Classificazione delle fratture

- 2002 9<sup>th</sup> Brussels International Spine Symposium, Degenerative Disc Disease? Controversies in etiopathogenesis, management and costs, Brussels, Belgium, November 22-23  
The need for central registration: Spine Tango
- 2003 3<sup>rd</sup> Live Spine Surgery Symposium, Bern, Switzerland, January 24 – 25  
LISS/MISS concept with special access technology
- 2003 2<sup>nd</sup> Biotechnology Seminar for AO/Synthes, University Clinic Freiburg, Freiburg, Germany, March 28  
*Guest Speaker*, Requirements of biotechnology products in spine surgery
- 2003 48<sup>o</sup> Congreso Nacional SCCOT, Bogotá, Columbia, April 30-May 3  
Retos para la comunidad ortopédica internacional  
*Guest Lecture* - Biotecnología en cirugía de columna  
*Guest Lecture* - Cirugía mínimamente invasiva en columna vertebral
- 2003 ENDO-Clinic, Hamburg, May 17  
European Hip Register – versus national registers
- 2003 AO-Seminar, Essen, May 22-23  
Reconstructive spine surgery at the cervico-thoracic junction
- 2003 XXVI National G.I.S. Congress, Rome, Italy, June 6-7  
Concepts of Less Invasive Spine Surgery
- 2003 EFORT, Annual Meeting, Helsinki, June 9  
Integrated web application of national and European registers
- 2003 CAOS-Meeting, Marbella, June 18-22  
*Chairman* of the Documentation and Outcome Committee of CAOS-Society.
- 2003 AO/ASIF Comprehensive and Interactive Spine Courses, Québec, Canada, August 7-10  
Tumors of the cervical spine  
General surgery: Spine indications across the world
- 2003 World Spine II Symposium: Second Interdisciplinary Congress on Spine Care, Chicago, Illinois, USA, August 10-13  
Economics and cost of spine care  
Cost of spine care
- 2003 Spina Sana: Programm Rueckenhilfe 2003, Zuerich, Switzerland, September 20  
Moderne Wirbelsaeulen Chirurgie
- 2003 9<sup>th</sup> AO Interactive Spine Course, Tokyo, Japan, September 23-25  
Representative case presentation: middle / lower cervical spine injuries
- 2003 9<sup>th</sup> AO Interactive Spine Course, Tokyo, Japan, September 23-25  
Classification and diagnosis of middle / lower cervical spine injuries
- 2003 9<sup>th</sup> AO Interactive Spine Course, Tokyo, Japan, September 23-25  
Classification and diagnosis of thoracolumbar trauma
- 2003 9<sup>th</sup> AO Interactive Spine Course, Tokyo, Japan, September 23-25  
Osteoporotic fractures: vertebroplasty, video
- 2003 9<sup>th</sup> AO Interactive Spine Course, Tokyo, Japan, September 23-25  
Representative case presentation: degenerative scoliosis

2003

9<sup>th</sup> AO Interactive Spine Course, Tokyo, Japan, September 23-25  
Degenerative adult scoliosis, indication and treatment

- 2003 EuroSpine Annual Meeting, Prague, Czech Republic, September 30-October 4  
SSE Lunch Workshop: SSE Spine Registry – “Spine Tango”  
Concept and philosophy of the Spine Registry
- 2003 Hellenic Orthopaedic Annual Association Meeting, Athens, Greece, October 15-19  
The Cervical Spine Trauma
- 2003 Hellenic Orthopaedic Annual Association Meeting, Athens, Greece, October 15-19  
Minimal Invasive Spine Surgery
- 2004 Klinik Permanence, Bern, Switzerland, February 2  
Wirbelsaeulenprobleme in der Praxis
- 2004 AO Spine Course „Surgery of Spine Deformities“, Foz de Iguaçu, Brazil, March 3 -6  
Secondary kyphosis. Post-traumatic deformity  
De novo scoliosis. Degenerative
- 2004 International Symposium of Spinal Implants, ENSAM, Paris, France, March 26 – 27  
Spinal implant registry: A common platform for the partnership between industry, surgeons and researchers
- 2004 Think Tank, Crete, Greece, April 29 – May 1
- 2004 AOSpine Comprehensive Course, Portoroz, Slovenia, May 23 – 26  
Introduction, Structure and organization of AOSpine  
Cervical spine trauma:  
Treatment of occipitocervical and upper cervical spine trauma  
Classification and diagnosis of middle/lower cervical spine injuries  
Thoracolumbar trauma:  
Classification and diagnosis of thoracolumbar trauma  
Spinal deformities:  
Frontal and sagittal decompensation: Case discussion  
Degenerative lumbar spine:  
Representative case presentation: degenerative scoliosis  
Mini Symposium MISS:  
MISS/LISS Concept  
Video Live Surgery: MISS in trauma / MISS in deg. Lumbar disorder / MISS in disc arthroplasty / Practical Exercise  
Cervical spine degenerative disorders and inflammatory diseases:  
Diagnosis, indication treatment of spinal metastasis
- 2004 30<sup>th</sup> Annual Congress of the Hellenic Spine Society, Samos, September 16 – 19,  
Cervical or thoracolumbar fractures
- 2004 2<sup>nd</sup> Combined (SSE and ASSI) Instructional Course in Spine Surgery (ICSS 2004), Research & Referral Army Hospital, New Delhi, India, October 2004  
Indication for combined (anterior & posterior) stabilization  
Discectomy & fusion with graft and plate  
Posterior fusion techniques (occipitocervical and C1-C2)  
Anterior decompression
- 2004 Annual Scientific Meeting of the Swiss Association for the Study of Pain, Biel, Switzerland, October 28 – 29  
“Kritische Beurteilung der chirurgischen Therapie: was, wann, warum?”  
Round Table „Pathologie-Modelle des Rueckenschmerzes“  
(Aebi M., Cahana A., Keel P., Ludwig Ch., Schwarz H.A., van Tulder M.,

Waddell G.)

- 2004 AO Wirbelsaeulenseminar , Charité, Berlin, Germany, November 4 – 6  
Die AOSpine Group: Informationen zur Struktur und Organisation  
Klassifikation Verletzungen der mittleren/unteren Halswirbelsaeule  
MISS/LISS Konzept – Einfuehrung
- 2004 11<sup>th</sup> Brussels International Spine Symposium, Spondylolysis, Spondylolisthesis and degenerative Spondylolisthesis, Brussels, Belgium, November 19 – 20  
 - Surgical treatment: Adults Lytic II – Two-stage reduction of spondylo grade IV-V  
 - Surgical treatment: Adults degenerative – Transpedicular-transdiscal-transcorporeal fixation
- 2004 81<sup>st</sup> AO Course, Davos, Switzerland, December 12 – 17  
AOSpine Masters 1
- 2004 81<sup>st</sup> AO Course, Davos, Switzerland, December 12 – 17  
AOSpine Masters 2
- 2004 81<sup>st</sup> AO Course, Davos, Switzerland, December 12 – 17  
AOSpine Interactive Course 1 – Degenerative and Deformity
- 2004 81<sup>st</sup> AO Course, Davos, Switzerland, December 12 – 17  
AOSpine Interactive Course 2 - Degenerative and Trauma
- 2005 Think Tank, Kreta Club, Brussels, March 3-5
- 2005 AOSpine Intervertebral Lumbar Disc Symposium, Davos, Switzerland, March 17-20  
Plenary session 4: Instrumented disc procedures  
Adjacent Disc Degeneration  
Databases and registries
- 2005 AOSpine Masters Course, Master Class in Spine Surgery, Florence, Italy, April 7-9  
Goals and role of AOSpine
- 2005 1<sup>st</sup> International Orthopaedic Trauma Course, Capri, Italy, May 20 – 24  
Thoraco-Lumbar Fractures  
Spine Fractures - ORIF
- 2005 Symposium am Bethesda-Spital, Basel, Switzerland, May 26-27  
Chirurgische Moeglichkeiten
- 2005 Kinderklinik Wildermeth, Biel, Switzerland, June 2<sup>nd</sup>  
Wirbelsaeulen-Probleme bei Kindern und Jugendlichen
- 2005 Summer University, Paris, France, June 30 – July 2  
Degenerative Adult Scoliosis in the Elderly
- 2005 Instructional Course in Spine, Juhu, Mumbai, India, August 19 – 21  
One level Cervical disc prolapse with myelopathy; Fusion  
High grade adolescent spondylolisthesis; In situ fixation  
Unstable Burst Thoracolumbar fracture: Surgery  
Spinal metastasis; Surgery
- 2005 Health Technology Assessment (HTA) und Spitäler, Kultur- und Kongresshaus Aarau, August 25  
HTA und Unispital



- 2005 3<sup>rd</sup> Trans Atlantic Spine Congress “Innovations in Spine Surgery”, Zurich, Switzerland, November 4 – 5  
Guest Lecture: Myths or Facts of Spine Arthroplasty
- 2005 Excellence in Spine, AOSpine - Complications in Spinal Access Surgery, Strasbourg, France, November 16-19  
Mini-open thoracolumbar spine surgery – access & complication considerations
- 2005 12<sup>th</sup> Brussels International Spine Symposium, Brussels, Belgium, November 18-19  
Disc Prosthesis Central Registry
- 2005 11<sup>th</sup> Biomechanics and Biotechnologies Meeting, Athens, Greece, December 2-4  
Fragility Fracture Treatment and Prevention: A Scientific Approach
- 2006 3. Videosymposium “Trauma Problems Spine and Pelvis”, Hannover, Germany, March 20-21  
Minimally Invasive Approach for Anterior Fusion
- 2006 AOSpine Wirbelsäulenseminar, Berlin, Germany, April 6-8  
Bewährtes und Innovatives in der Wirbelsäulen Chirurgie. Interaktive Lernveranstaltung  
Klassifikation der Verletzungen
- 2006 Think Tank, Kreta Club, Chicago, April 26-30
- 2006 Spine 2006: State of the Art in Spinal Disorders: An International Comprehensive Course, Sorrento, Italy May 18-20  
Surgical option indications and reconstruction of metastatic tumors
- 2006 Spine 2006: State of the Art in Spinal Disorders: An International Comprehensive Course, Sorrento, Italy May 18-20  
Treatment of rheumatoid disease of the cervical spine
- 2006 AO ASIF Spine Deformity Symposium, Montreal, Canada, July 22-23  
Ex novo and degenerative adult scoliosis – Global approach to surgical management
- 2006 ISSLS Instructional Course, Curitiba, Brazil, August 23-24  
Adult degenerative scoliosis
- 2006 ISSLS Instructional Course, Curitiba, Brazil, August 23-24  
High grade spondylolisthesis: To reduce or not?
- 2006 AOSpine Cervical Spine Symposium, Majorca, Spain, September 21-24  
Indications and limits of anterior surgery
- 2006 AOSpine Cervical Spine Symposium, Majorca, Spain, September 21-24  
My worst case
- 2006 AO Symposium DGU: Osteoporose – Die Herausforderung der Zukunft, Berlin, Germany, October 5  
Wirbelsäule
- 2006 1<sup>st</sup> International Course: New Trends in Spinal Surgery, Bologna, Italy, October 19-21  
New trends in surgical treatment of adult scoliosis
- 2006 91<sup>st</sup> SIOT Annual Congress, Rome, Italy, November 12-16

The challenges of spine surgery – today and in the future

- 2006 Brussels International Spine Symposium, Brussels, Belgium, November 17-18  
Surgical R/ upper, lower and middle cervical injuries and non-union: anterior procedures
- 2006 13<sup>th</sup> Brussels International Spine Symposium, Brussels, Belgium, November 17-18  
Classification of spine fractures: thoraco-lumbar spine
- 2006 AOSpine Davos 2006 courses, Davos, Switzerland, December 10-15  
Degenerative and Deformity Course:  
- Rheumatoid cervical spine (In session: Degenerative cervical spine)  
- Rheumatoid arthritis (In session: How I do it)  
- Management of degenerative scoliosis in elderly patients (In session: Adult spinal deformities)  
  
Trauma and Tumor Course:  
- Classification and management concepts for thoracolumbar fractures  
- Thoracolumbar Spine Course.  
- Rheumatoid arthritis (In session: How I do it)
- 2007 Congrès de la Société Française de Chirurgie Rachidienne (SFCR) et de la Société Francophone de Neurochirurgie du Rachis (SFNCR) „Rachis 2007 : Presentation du registre des prothèses discales. Nantes/ France, June 7-9
- 2007 Rheuma, Rücken- und Schmerzkongress, Paraplegiker-Zentrum PZ Nottwil, June 16-27, 2007 Die künstlichen Bandscheiben, Experiment oder Fortschritt?
- 2007 World Spine IV: 4th Interdisciplinary Congress on Spine Care; Istanbul/Turkey, July 31-August 1, 2007  
Symposium: Guidelines for the Diagnosis and Management of Primary and Metastatic Spine Tumors
- 2007 ISSLS Instructional Course, Johannesburg, South Africa, September 1-2, 2007  
- Vertebroplasty in the Lumbar Spine  
- High Grade Spondylolisthesis: To Reduce or Not?
- 2007 2nd International Congress of Biotechnologies for Spinal Surgery, Leipzig/Germany, September 20-22, 2007:  
The disc from the bench to the bedside and beyond
- 2007 AO Spine Comprehensive Course, Bologna/Italy, October 22-24, 2007  
- I principi AO applicati al rachide  
- Classificazione dei traumi vertebrali
- 2007 XIVth International Spine Symposium, Brussels, Belgium, November 16-17, 2007 - Indications for fusion
- 2007 Italian Neurosurgical Society Spine Surgery Section – European Meeting Venice / I: November 23-24, 2007  
Indications for the Surgical Treatment of Spine Degenerative Pathology: A score point system,  
- Session 2: S.P.S. in “Cervical Spondylosis and Myelopathy”  
- Session 6: S.P.S. in “Lumbat Canal Stenosis” – Chairman
- 2008 AO-World Forum for Spine research the Intervertebral Disc- 1<sup>st</sup> Japanese Meeting – Kyoto/Japan, January 23-26, 2008  
Overview of etiology of disc degeneration and low back disorders (Symposium on etiology)
- 2008 4<sup>th</sup> World Health Care Congress, Berlin/Germany – March 10-12, 2008  
Summit 4: Improving Quality and Patient Safety – Leveraging IT: Health

technology and related quality of care assessment: Building a medical registry platform.

- 2008 Fortbildungsveranstaltung der Rheumatologie Kt. Solothurn, 15. Mai 2008, Update Wirbelsäulen Chirurgie – Diskushernie, Listhesis, etc. Wann konservativ, wann operativ? – Was muss und soll der praktizierende Rheumatologe wissen?
- 2008 XXXI Società Italiana di Chirurgia Vertebrale G.I.S. Meeting, Milano/Italy May 22-24, 2008 - Lettura Magistrale: The Disc from the Bench to the Bedside and Beyond,
- 2008 XXXI Società Italiana di Chirurgia Vertebrale G.I.S., Meeting, Milano/Italy May 22-24, 2008: Spine Tango Workshop - Great Efforts. What's the Reward? M. Aebi, T. Zweig, C. Röder
- 2008 Neurosurgical Society of Brasil, Sao Paulo/ Brasil – July 2<sup>nd</sup> June 2008
- 2008 AOSPINE-Complications & Controversies: How to avoid and how to deal? July 03-08, 2008 – Buenos Aires / Argentina  
1) The disc from the bench to the bedside and beyond  
2) Spine fractures: Is there really anything new?
- 2008 HWS Symposium, Potsdam/Deutschland, 12-13. September 2008  
Mythen und Fakten der HWS-Bandscheibenprothesen
- 2008 ISSLS Comprehensive Course in Cartagena/Columbia, Oct. 2-4, 2008  
Avances en patologia de columna lumbar – Fusion Vs No Fusion  
October 2-4, 2008 – Cartagena /Columbia  
- Escoliosis Degenerativa Principios de tratamiento  
- Espondilolisthesis de alto grado: reducirla o no?
- 2008 International Conference on Spine Surgery and Rehabilitation, Milano/Italy October 6-8, 2008:  
- Classifications and management of dorso-lumbar fractures  
- Technological contest: Minimally Invasive Spine Surgery
- 2008 Czech Spine Surgery Society, Prag/Liberec – Czech / November 5-7, 2008 -  
Challenges of Spine Surgery of Tomorrow – Presidential Guest Speaker for  
Honorary Membership of the Czech Medical Society – Purkinje Society
- 2008 AO SPINE Middle East – Excellence in Spine, AOSPINE live surgery  
symposium / masterclass in the treatment of the deformed and degenerative  
spine, Kuwait / November 8-10, 2008 :  
- Live surgery session: The role and outcome of fusion (anterior-posterior 360°)  
and Live surgery-Lumbar disc replacement  
- Failed back syndrome – failed back-revision surgery
- 2008 Brussels International Spine Symposium, Brussels/Belgium - November 21-22,  
2008, Principles of semi rigid fixation  
1) In vivo measurement of coupled motion  
2) Is fusion bad?
- 2008 3. Jahrestagung der Deutschen Wirbelsäulengesellschaft, Ulm/D – 27.-  
29. November 2008 – Presidential Guest Speaker:  
Wirbelsäulenregister der Eurospine  
- Eine Notwendigkeit für die Europäischen Fachgesellschaften?  
- SWISS Spine – Ein nationales HTA-Register für Bandscheibenprothesen  
- Ergebnisse der lumbalen Studiengruppe des Swiss Spine Registry

- 2009 2. Nationales Symposium für Qualitätsmanagement in der Medizin, Bern, 12. März – Chairman / Einführung u. Round Table Diskussion
- 2009 Spine Tango Consensus Meeting, Zürich 20. März 2009,  
- Basic principles and ownership of the data  
- Role of Eurospine Foundation in Spine Tango
- 2009 3<sup>rd</sup> International Symposium on advanced Spine Surgery, Milan/IT, 3.-4 April 2009 – Presidential Guest speaker “Scoliosis” Principles of treatment of adult scoliosis
- 2009 ISSLS - International Society For the Study of the Lumbar Spine, Miami/USA. 4-8 May 2009 – An analysis of the surgical treatment of lumbar spinal stenosis (LSS), – Procedures, outcomes, influential actors. A prospective study of 1348 patients in the international “Spine Tango” registry.
- 2009 “La chirurgia dell’artrosi cervicale, oggi”, Turin, 26/27 Juni 2009  
- Le conseguenze biomecchaniche del rachide cervicale artrosico et con fusione  
- Le indicazioni della chirurgia anteriore per il rachide cervicale artrosico: spondilodesi o artroplastica?
- 2009 “I trauma cervicalie dorso-lombari” Cagliari 18/19 September 2009  
- Lettura Magistrale: La fratture cervicali
- 2009 Spine Tango Workshop / 4. Jahrestagung der Deutschen Wirbelsäulengesellschaft, ICC München – 10.12.2009  
- Wie soll das nur weitergehen? Zukünftige Strukturen des internationalen WS-Registers

## **OTHER CONTRIBUTIONS (Editorial Boards - Ad hoc reviews)**

### **1. Journals**

- Ganz R., Aebi M.: Editorial Issue "Wirbelsäulen Chirurgie" "Therapeutische Umschau", Issue "Surgical treatment of spinal disorders" 44: 698-699, 1987.
- Ad hoc Reviewer for Clinical Orthopaedics and Related Research, 1989-
- Guest Editor (together with J. Thalgott) of SPINE issue "Modern Osteosynthesis in Spinal Surgery", 1990.
- Editorial Board "La lettre d'orthopédie et de traumatologie", 1990-
- Reviewer for the Canadian Journal of Surgery, 1992-
- 1 Editorial - Current Orthopaedics: "Degenerative Spine Disease and Surgery", 1992.
- Coordinating Editor of the European Spine Journal (Springer Verlag / Heidelberg, New York, Tokyo) 1992-1997
- Editor-in-Chief, and ex-officio Board Member, European Spine Journal (Springer Verlag / Heidelberg, New York, Tokyo) 1997-
- Aebi M., Nazarian S.: 25 Editorials - European Spine Journal, Springer International, 1992-1999

- Aebi M., Gunzburg R., Olmarker K.: 8 Editorials, European Spine Journal, 1999
- Advisory Editorial Board SPINE, 1993-
- Editor (together with J.S. Thalgott) of "Manual of Internal Fixation of the Spine", Lippincott-Raven, 1996
- Editorial Board, The Pan Arab Journal of Orthopaedics and Trauma, Nov. 1997-
- Editorial Board, JBJS (Am + Br), 1998 (ex-officio)
- Editorial Board, Archives of Orthopaedic and Trauma Surgery, 2002
- Editorial Board, Journal of Computer Aided Surgery (CAS), 2005
- Ad hoc Reviewer, CORR 2003 -
- Ad hoc-Reviewer, Lancet, 2007
- Journal of Orthopaedics (Official Journal of the POA) 2007
- Journal of Musculoskeletal Surgery (Official Journal of SIOT) 2007
- Wissenschaftlicher Beirat (Leading Opinions 'Orthopädie' – Universimed Verlag, Wien)
- Editorial Board (La Chirurgia degli Organi di Movimento, Muculoskeletal Surgery). 2008

## **2. Grant Reviews**

- AOI-Research Foundation Grant Reviews, 1988 - 2007
- NAFO - Grant Reviews - twice a year, 1991- 1998  
(= Swiss National Foundation for Scientific Research (= Government Agency))
- Bourrough Foundation Grant Reviews, 1991
- Medical Research Council (MRC) Grant Reviews, 1995-
- FRSQ - Grant Reviews, 1995-
- Alberta Heritage Foundation for Medical Research, Dec. 1996-
- COF - Grant Reviews, 1995-

## **ADMINISTRATIVE RESPONSIBILITIES**

### **a. University**

- Chairman, Institute for Evaluative Research in Orthopaedic Surgery, University of Bern, 2003-
- Chairman, Division of Orthopaedic Surgery, McGill University, 1992-2002

### **b. Hospital**

- Chief of Staff, Orthopaedic Hospital Salem, Bern, Switzerland, 2003-
- Chief, Division of Orthopaedic Surgery, Royal Victoria Hospital, 1992-1997.
- Founder and Director, Orthopaedic Research Laboratory, Royal Victoria Hospital, 1992-
- Acting Chief, Department of Orthopaedics, Montreal General Hospital, 1996-1997.
- Orthopaedic Surgeon-in-Chief, Combined Services, Montreal General & Royal Victoria Hospital (MUHC), 1997-2002

## **COMMITTEES**

### **Current**

- Academic Council of the AO/ASIF Foundation, 1999-
- Award Committee, Grammar-ESJ Award for Basic Science (20'000 Euro), Spine Society of Europe, 2000-
- Chair, Foundation for Patient Forum, University of Bern, Medical School, 2001
- Chair, Spine Tango Committee, Spine Society of Europe, 2003
- Chairman, Documentation and Outcome Committee, CAOS-Society, 2003
- Chair, Search Committee for the Professor and Chair Dept. for Dental Preservation, Preventive and Pediatric Dental Medicine, University of Bern
- Präsident der Nachfolgekommision Prof. Dr. N. Lang – Klinik für Parodontologie (+Kronen und Brückenprothetik der Zahnmedizinischen Kliniken der Universität Bern, 2007
- Präsident der Nachfolgekommision Extraordinariat Kronen/Brücken der Zahnmedizinischen Klinik der Universität Bern, 2007
- Präsident der Nachfolgekommision Kieferorthopädie der Zahnmedizinischen Klinik der Universität Bern, 2007

### **Past**

- Member of the examiner committee for final graduation at the Medical School, University of Bern, 1986-1992
- Member of the Surgical Pavilion of the Medical Faculty of the University of Bern, 1987-1992
- Member of the Committee of the Reorganization of the Emergency Department and Trauma Care Organization of the University Medical Center in Bern, 1989-1992
- Member, Board of the Associate Professors, Medical Faculty, University of Bern
- Member, Academic Senate of the University of Bern, 1989-1991
- Member, Executive Committee, Faculty of Medicine, University of Bern, 1991-1992
- Search Committee for the Director of Paediatric Orthopaedic Surgery, McGill, 1992.
- Search Committee for the Chief of Paediatric Orthopaedic Surgery, Montreal Children's Hospital, 1993.
- Member, Promotion Committee for Promotion to Full Professor (Dr. Azouz) University Senate, 1995.
- Member, Search Committee for the Chair of the McGill Division of Plastic Surgery, 1995.
- Chair, Clinical Integration of Orthopedic Surgery Services Work Group, 1996-1997.
- Chair, Review Committee, Division of Vascular Surgery, McGill University Health Centre (MUHC), 2002
- Chair, Search Committee for the Head of Plastic Surgery, MUHC & McGill, 2000-2001.
- McGill Department of Surgery, Chief Executive Committee (one of two Vice-Chairs), 1999
- McGill University Health Center (MUHC) Research Axis, 1999-2001 (Co-Chair: Musculo-Skeletal Axis)
- McGill Department of Surgery Executive Committee, 1992-2002
- Executive Committee, Department of Surgery, Division of Surgical Research, McGill University, 1994-2002
- Surgical Pavilion Management Committee, Royal Victoria Hospital, 1992-2002
- Executive Committee, Department of Surgery, Royal Victoria Hospital, 1993-2002
- Financial Committee, Department of Surgery, Royal Victoria Hospital, 1993-2001
- Space and Capital Projects Committee, Royal Victoria Hospital, 1993-2002
- Operating Room Committee, Department of Surgery, Royal Victoria Hospital, 1993-2002
- MGH Surgical Service Budget Committee, Department of Surgery, Montreal General Hospital, 1996-2002
- Clinical Advisory Committee to the Director of Professional Services of the Montreal General Hospital (CAC), 1996-2002
- Surgical Advisory Council, Montreal General Hospital, 1996-2002
- Operating Room Committee, Department of Surgery, Montreal General Hospital, 1996-2002
- Thematic Program - Spinal Disease Committee, McGill University, Integration Task Force MUHC 1996-2002
- Department of Oncology Integration Planning for the McGill University Health Centre (MUHC)
- Cyclical Review Committee, Chief of Orthopaedics, Montreal Children's Hospital, 1997
- McGill Orthopaedic Residency Training Committee, 1997-2000

## **PROFESSIONAL AND/OR LEARNED SOCIETIES** (Current & Past)

### **Officer/Committee member**

#### AO-International

- Member of the Technical Committee (section "Spinal Surgery") of the AOI, 1985-
- AOI "Task Force" for Spinal Instrumentation Development, 1988-1992
- Chairman, Educational Board for Spinal Surgery, 1992-2000
- Trustee Member AO/ASIF, 1992-
- Chairman of the Classification and Documentation Group for Spinal Surgery AOI.
- Member, AO North America Steering Committee
- Member of the Task Force for Minimal Invasive Spine Surgery (MISS), 1995-
- Chairman, Strategy Committee AO Spine Group, 2000-
- Co-chairman, AO Spine Group, 2000-2003
- Chairman, AO Spine International Board, 2003-

### Others

- Member, Committee for Informatic Sciences of the Swiss Society of Orthopaedic Surgery, 1985-1992
- Member, Academic Orthopaedic Society USA, 1993-
- Board of Directors, A.V. Humboldt School, Montreal, 1993-1995
- AO North America Steering Committee, 1994-2002
- Member-at-Large, Executive of the Canadian Orthopaedic Research Society (CORS), 1995-1996
- Secretary Treasurer, Canadian Orthopaedic Research Association (CORS), 1996-1997
- Chairman, Program Committee, CORS 1997-1998
- First Vice-President, Quebec Scoliosis Society, 1995-1996
- President, Quebec Scoliosis Society, 1996-1997
- President Elect, Canadian Orthopaedic Research Society (CORS), 1997-1998
- President, Canadian Orthopaedic Research Society (CORS), 1998-1999
- CORS Programme Chair, Committee on Subsections, Canadian Orthopaedic Association, 1997
- Member, Academic Council Committee, Canadian Orthopaedic Association, 1997-
- Ex-officio, Program Committee (CORS), Canadian Orthopaedic Association, 1997
- Programme Chairperson, Canadian Orthopaedic Research Society, 1997-1998
- ADI (AO Development Institute) Steering Committee, September 1997-
- Chairman of the Scientific Board, The Swiss Spine Institute, 2002-
- EUROSPINE Award Committee, Spine Society of Europe, 2002-  
(Orthobiologic Award (10'000 Euro))  
(Basic Science Award (10'000 Euro))  
(Clinical Science Award (10'000 Euro))
- Executive Committee, Mueller/SICOT Foundation, 2002-
- President of the Spine Society of Europe, 2004 – 2005
- Chairman EUROSPINE FOUNDATION 2009



**Meeting Organizer** (Chairman of Conferences, Scientific Meetings, Workshops)

Aebi M., Regazzoni P.:

First International Symposium on Bone Transplantation, University of Bern, May 14-16, 1987

Aebi M., Schwarz H.:

National Symposium "Cervical Spine", Inselspital, Bern, Switzerland, April 25, 1991

Aebi M., Floman Y.:

AO/ASIF Spine Course, Israël, Hertzilya, March 28 - April 2, 1993

Aebi M.:

Retreat, Division of Orthopaedic Surgery, McGill University, Montreal, May 21, 1993

Aebi M., Benson D.:

North American AO/ASIF Spine Course, Hiltonhead, North Carolina (USA), October 18-22, 1993

Aebi M.,

9th Annual Review/Update on Cervical Spine and Upper Extremity, McGill University, Montreal, November 26-27, 1993

Aebi M., Nazarian S.:

First French AO/ASIF Spine Course, Davos, Switzerland, December 5-10, 1993

Aebi M.:

AO/ASIF North American Spine Course, Montreal, July 8-10, 1994

Aebi M., Poitras B.:

AO/ASIF Cours de base et symposium des fractures complexes, Montreal, October 22-25, 1994

Aebi M., Conochie L.:

National Symposium "Orthopaedic Surgery for the Geriatric Patient", Montreal, November 10, 1994

Lenczner E., Aebi M., Laurin C.A., Marien R.:

10th Annual Orthopaedic Review Course, Montreal, November 11-12, 1994

Aebi M., Anderson P.:

66<sup>th</sup> English AO/ASIF Spine Course, Davos, Switzerland, December 12-17, 1994

Brooks C.E, Aebi M.:

11th Annual Orthopaedic Review Course, Montreal, October 27-28, 1995

Aebi M.:

67<sup>th</sup> English AO/ASIF Basic and Advanced Spine Course, Davos, Switzerland, December 1-8, 1995

Lamartina C., Marchesi D., Aebi M.:

AO Spine Course, Rome, Italy, May 23-26, 1996

Aebi M.:

AO/ASIF Basic Spine Course for Operating Room Personnel and Advanced Spinal Techniques Course, Montreal, Canada, June 28-30, 1996

Vialle L., Aebi M.:

AO Spine Seminar, Curitiba, Brazil, July 22-24, 1996

Aebi M., Webb J.K.:  
First AO/ASIF Spine Faculty Forum, Broadmoor, Colorado, Oct. 4-6, 1996

Aebi M., Al-Rehda H.:  
AO Spine Course, Dubai, United Arab Emirates, Oct. 23-26, 1996

Aebi M.:  
68<sup>th</sup> English AO/ASIF Basic and Advanced Spine Course, Davos, Switzerland, Dec. 8-13, 1996

Fassier F., Aebi M., Tanzer M., Huk O.:  
12th McGill Orthopaedic Annual Review Course, Mont-Tremblant, Quebec, March 6-9, 1997

Aebi M., Floman Y.:  
AO Spine Course, Jerusalem, Israel, April 15-17, 1997

Aebi M.:  
Annual Meeting of the Quebec Scoliosis Society, Hull, Quebec, May 2-3, 1997

Aebi M.:  
LISS (less invasive spinal surgery) to MISS (minimal invasive spinal surgery) Symposium, Davos, Switzerland, Dec. 13, 1997

Aebi M.:  
69<sup>th</sup> English AO/ASIF Basic and Advanced Spine Course, Davos, Switzerland, Dec. 14-19, 1997

Aebi M., Tien Tan Chong:  
AO/ASIF Advanced Spine Course, Singapore, April 12-16, 1998

Aebi M., Dvorak M:  
AO North American Basic & Advanced Spine Course, Montreal, Quebec, July 16-19, 1998

Aebi M.:  
AO/ASIF Spine Course, China (Beijing, Shanghai), Hong Kong, August 24- September 2, 1998

Aebi M., Bray R., Bryant T. (CORS):  
3rd Combined Meeting of the Orthopaedic Research Societies (ORS, CORS, EORS, JORS) Meeting, Japan, September 28-30, 1998

Aebi M.:  
70<sup>th</sup> English AO/ASIF Basic and Advanced Spine Course, Davos, Switzerland, Dec. 11-19, 1998

Aebi M., Marchesi D., O'Dowd J.:  
AO/ASIF Comprehensive Spine Course, Hangzhou and Beijing, China, March 30 - April 3, 1999

Mueller M.E., Aebi M., Gerber C., Jakob R.P.:  
International Symposium on Surgical Approaches to the Hip, Berne, Switzerland, Aug. 19-20, 1999

Aebi M.:  
Japanese AO Spine Course, Kobe, Japan, October 24-26, 1999

Aebi M., Marchesi D., O'Dowd J.:  
71<sup>st</sup> English AO/ASIF Basic and Advanced Spine Course, Davos, Switzerland, Dec. 12-17, 1999

Holz U., Aebi M., Ehrenfeld M., Lowka K., Murphy A.:  
AO Jubilee Courses for the Middle East Region (Comprehensive Spine Course), Cyprus, Middle East, April 8-11, 2000

Aebi M.:  
Seminar on Documentation in Orthopaedic Surgery (organized by the Swiss Orthopaedic Society and the M.E. Mueller Center for Orthopaedic Research), Bern, Switzerland, November 18, 2000

- Aebi M, Marchesi D., O'Dowd J.:  
72<sup>nd</sup> English AO/ASIF Basic and Advanced Spine Course, Davos, Switzerland, Dec.8-13, 2000
- Aebi M.:  
Live Surgery Symposium about Minimally Invasive Spine Surgery, Davos, Switzerland, Dec. 8-9, 2000
- Aebi M, Boos N., Heini P.:  
Symposium on the "Degenerated Vertebral Motion Segments: Basic and Clinical Sciences, Sponsored by the MEM Foundation & Synos Foundation, Bern, Switzerland, January 18-19, 2001
- Aebi M., Roughley P. (Canada- CORS):  
4<sup>th</sup> Combined Meeting of the Orthopaedic Research Societies of the U.S.A., Canada, Europe and Japan, Rhodes, Greece, June 1-3, 2001
- Aebi M., Duhaime M., Guy P.:  
AO/ASIF Principles of Fracture Management Course for Residents, Montreal, August 23-26, 2001
- Etter Ch., Aebi M.:  
New Horizon in Spine Surgery: Bone Substitutes, Swiss Spine Institute, Zurich, Oct. 18-19, 2001
- Marchesi D., O'Dowd J., Aebi M.:  
English AO-ASIF Basic and Advance Spine Course, Davos, Switzerland, Dec. 9-14, 2001
- Aebi M., O'Dowd J., Nolte L.:  
Chairman 2<sup>nd</sup> Live Surgery Symposium (Less Invasive Spine Surgery – LISS): Berne, Switzerland, Feb. 1-2, 2002
- Aebi, M.:  
Hip Instructional Course (Italia), Berne, Switzerland, March 7-9, 2002
- Aebi M., Al Rehda H.:  
AO Interactive Spine Course, Dubai, UAE, October 19-22, 2002
- Szucs T.D., Aebi M., Tartini R.:  
Symposium IMPACT 2002. Kursaal Bern, Switzerland, November 9, 2002
- Aebi M, Marchesi D., O'Dowd J.:  
English AO/ASIF Basic and Advanced Spine Course, Davos, Switzerland, Dec.8-13, 2002
- Aebi M, O'Dowd J., Nolte L.:  
Chairman 3<sup>rd</sup> Live Spine Surgery Symposium (Less Invasive Spine Surgery – LISS): Berne, Switzerland, Jan. 24-25, 2003
- Aebi M., Magerl F.  
Chairman of Session Trauma/Tumor for EuroSpine 2003, Prague, Czech Republic, October 1 – 4, 2003
- Aebi M., Ales A., Straus I.:  
Chairman AOSpine Comprehensive Course, Portoroz, Slovenia, May 24 – 26, 2004
- Aebi M., O'Dowd J., Nolte L.:  
Chairman 4<sup>th</sup> Live Surgery Symposium (Less Invasive Spine Surgery – LISS): Berne, Switzerland, Feb. 6 - 7, 2004
- Aebi M.  
Chairman Special Poster Presentations, Basic Science, at the SpineWeek 2004, Porto, Spain, May 30 – June 5, 2004
- Aebi M.  
Chairman of Session 3, Debate 1, Management of Soft Cervical Disc Herniations, 2<sup>nd</sup> Combined (SSE and ASSI) Instructional Course in Spine Surgery (ICSS 2004), Research & Referral Army Hospital, New Delhi, India, October 8 – 10, 2004

Aebi M.

Chairman of the AO Wirbelsaeulenseminar, Bewaehrtes und Innovatives in der Wirbelsaeulen Chirurgie, Charité, Berlin, Germany, November 4 – 6. 2004

Aebi M.

Chairman of the Session „Die Chronische Bandscheibendegeneration“. 3. St. Vinzenz Orthopaedietag „Die Bandscheibe“, Vienna, Austria, November 13, 2004

Aebi M.

Chairman of the Session „Diagnosis“. 11<sup>th</sup> Brussels International Spine Symposium, Spondylolysis, Spondylolisthesis and degenerative Spondylolisthesis, Brussels, Belgium, November 19 – 20, 2004

Aebi M, O’Dowd J., Nolte L.:

Chairman 5<sup>th</sup> Live Spine Surgery Symposium (Less Invasive Spine Surgery – LISS): Berne, Switzerland, Feb. 4-5, 2005

Aebi M. Grob D.

Chairman of the Sessions „Outcome and Disability“ and „Awards and Honorary Lectures Session“. EuroSpine 2005, Barcelona, Spain, September 21-24, 2005

Aebi M.

Chairman of the lecture block “Thoracic Spine”.

Excellence in Spine, Complications in Spinal Access Surgery, Strasbourg, France, November 16-19, 2005

Aebi M., O’Dowd J., Nolte L.:

Chairman 6<sup>th</sup> Live Surgery Symposium (Less Invasive Spine Surgery – LISS): Berne, Switzerland, Feb. 10 - 11, 2006

Aebi M., Neffel K.:

Infiltrationskurs I: Therapeutische und diagnostische Massnahmen bei Erkrankungen und Verletzungen im Schulter-, Ellbogen-, Hüft-, Becken- und Kniebereich. Bern, Switzerland, November 23, 2006

Nordin M., Aebi M., Rossignol M.:

International Seminar and Workshop: Introduction to methods in clinical research of musculoskeletal disorders. Bern, Switzerland, January 22-26, 2007

Aebi M., Neffel K.:

Infiltrationskurs II: Therapeutische und diagnostische Massnahmen bei Erkrankungen und Verletzungen im Hand-, Fuss- und Wirbelsäulenbereich. Bern, Switzerland, February 1, 2007

Aebi M., Neffel K.:

Infiltrationskurs I: Therapeutische und diagnostische Massnahmen bei Erkrankungen und Verletzungen im Schulter-, Ellbogen-, Hüft-, Becken- und Kniebereich. Bern, Switzerland, March 22, 2007

Aebi M., O’Dowd J., Schlenzka D.:

7th Bernese Live Spine Surgery Symposium: Complex surgery at the junctions of the spine. Bern, Switzerland, February 9-10, 2007

Aebi M.,

Course Introduction to Methods in Clinical Research, Bern January 22-26, 2007 : Chairman

Aebi M.,

Infiltrationskurs II / Bern, February 1, 2007 - Chairmen

Aebi M.,

LISS 2007 – 7th Bernese Live Spine Surgery Symposium – Complex Surgery at the Junctions of the Spine, Bern Feb. 9-10. 2007 – Course Chairperson

Aebi M.,

Infiltrationskurs I / Therapeutische und diagnostische Massnahmen bei Erkrankungen und Verletzungen

im Schulter-, Ellbogen-, Hüft-, Becken- und Kniebereich, Bern, March 22, 2007

Aebi M., Müller U.:  
Nationaler Kongress für Qualitätsmanagement im Gesundheitswesen - Inselspital  
Bern, Switzerland, Mai 31st – June 1st, 2007: Qualität aus Sicht der  
Konsumentinnen und des Gesundheitssystems, und dank praxisnahem  
Qualitätsmanagement in eine bessere Zukunft? - Session Chairmen

Aebi M.:  
Task Force on Neck Pain, The Bone and Joint Decade 2000-2010, Bern  
September 28<sup>th</sup>, 2007. Introduction

Aebi M.:  
Congrès de la Société Française de Chirurgie Rachidienne (SFCR) et de la Société Francophone de  
Neurochirurgie du Rachis (SFNCR) „Rachis 2007: Presentation du registre des prothèses discales.  
Nantes/ France, June 7-9, 2007

Aebi M.:  
Preparation Course Anatomy, McGill University, Montreal/Canada, July 17-19, 2007

Aebi M.:  
World Spine IV: 4th Interdisciplinary Congress on Spine Care; Istanbul/Turkey, July 29-August 1, 2007

Aebi M.:  
2nd International Congress Biotechnologies for Spinal Surgery: The disc from the bench to the bed side  
and beyond, Leipzig/Germany, September 20-22, 2007

Aebi M., Pigott T.:  
Eurospine Brussels, October 2-6 - Chairmen  
- "Cervical Spine",  
- Workshop: Registry and Quality Management, Chairs: Aebi M, Mayer HM  
- Instructional lectures: Aebi M, Boos N

Aebi M.:  
XIVth International Spine Symposium, Brussels, November 16-17, 2007  
- Indications for fusion

Aebi M.:  
Italian Neurosurgical Society Spine Surgery Section – European Meeting: Indications for the Surgical  
Treatment of Spine Degenerative Pathology: A score point system., November 23-24, 2007  
- Session 2: S.P.S. in "Cervical Spondylosis and Myelopathy"  
- Session 6/ S.P.S. in "Lumbar Canal Stenosis" - Chairman  
-

Aebi M.,  
AOSpine Davos courses, Davos, Switzerland, December 9-14, 2007 - Chairman Masters Course

Aebi M., Boos N., O'Dowd J.:  
8<sup>th</sup> Bernese Live Spine Surgery Symposium – Februar 8-9, 2008, Bern/Switzerland,  
Faculty: Management of Complications and Errors; "Managing the downside of spine surgery"

Aebi M.:  
Infiltrationskurs I / Therapeutische und diagnostische Massnahmen bei Erkrankungen und Verletzungen  
im Schulter-, Ellbogen-, Wirbelsäulen-, Hüft- und Beckenbereich, Inselspital/Institut für Anatomie, Bern,  
16 Mai 2008

Aebi M.;  
Infiltrationskurs II / Therapeutische und diagnostische Massnahmen bei Erkrankungen und Verletzungen  
im Hand-, Knie- und Fussbereich sowie bei typischen Schmerzsyndromen bei Sportlern.  
Inselspital/Institut für Anatomie, Bern – 2 Oktober 2008

Aebi M., et al:  
2. Nationales Qualitätssymposium in der Medizin, 12.3.2009: FMCH, AQC, Universität Bern

Aebi M.:

Infiltrationskurs I / Therapeutische und diagnostische Massnahmen bei Erkrankungen und Verletzungen im Schulter-, Ellbogen, Wirbelsäulen-, Hüft- und Beckenbereich  
Inselspital/Institut für Anatomie, Bern – 28. Mai 2009

Aebi M.:

Infiltrationskurs II / Therapeutische und diagnostische Massnahmen bei Erkrankungen und Verletzungen im Hand-, Knie- und Fussbereich bei Sportlern  
Inselspital & Anatomisches Institut, Bern – 7. Oktober 2009

**MEMBERSHIP**

- Swiss Medical Association
- Swiss Society of Surgery
- Swiss Society of Orthopaedic and Trauma Surgery
- Orthopaedic Research Society (USA)
- Scoliosis Research Society (USA)
- Quebec Scoliosis Society (SSQ)
- Cervical Spine Research Society (American and European Section)
- SICOT (Société Internationale de la Chirurgie Orthopédique et Traumatologie)
- International Group of C.D.I. (GICD)
- Swiss AO
- AO-International
- North American AO/ASIF
- European Spinal Deformity Society (ESDS)
- European Spine Society
- Canadian Orthopaedic Association (COA)
- Quebec Orthopaedic Association (QOA)
- Canadian Orthopaedic Research Society (CORS)
- Alpha Club (Assembly of Canadian Academic Orthopaedic Surgeons)
- American Orthopaedic Association (AOA)
- Association of Academic Orthopaedic Administrators (AAOA)
- International Society for the Study of the Lumbar Spine (ISSLS)

## **RESEARCH**

### **1. Research Activities (Current & Past)**

- 1) Bone and joint transplantation (experimental animal research), later at McGill research with a bone perfusion model and study of different bone grafting materials in spinal fusion and tumor surgery.
- 2) Biomechanics and new implants in spinal surgery (applied experimental research).
- 3) Clinical research mainly in spinal surgery, tumors, total hip and trauma surgery.
- 4) Basic research on disc degeneration (biochemistry, biomechanics and finite element modeling of the spinal segment), running until 12/2002 a interdisciplinary research group with own lab with ten (10) collaborators.
- 5) Formal head of 4 Research Laboratories, Division of Orthopaedics (32 full-time researcher)
- 6) Outcome studies and registries in orthopaedic surgery.

#### **Ad 1:**

As expression of my interest in reconstructive surgery in tumors and post-traumatic conditions, I have been working on bone transplantation since 1977, especially allografts which were studied under very different conditions like immunosuppression, immediate microsurgical revascularization and stable internal fixation. This work is mostly done in a canine animal model. Biomechanical work in tumor reconstruction is done in cadaver bone. The first part of this work led to the SICOT/SIROT award in 1987, and the "Habilitation". A vascularized allograft joint model (knee joints) was then developed, a research direction, which was continued by the Basel group after I left to join the Bern department.

A second project ran together with A. Czitrom from Toronto about immunologically well-defined rat bones, which are preserved in different culture mediums to eliminate antigen-presenting cells. The bones are then implanted in rats. Dr. O. Schwarzenbach was my research fellow in this project and did the collaborative study with the Toronto group as a NAFO young researcher fellow.

A third project is dedicated to the creation of a bone perfusion model (in analogy to a liver or a kidney perfusion model) to study bone metabolism under different biological and biomechanical conditions. The whole perfusion system was rebuilt and sophisticated in the Orthopaedic Research Laboratory at McGill University and laid the ground for the Biomechanical Incubator for in vitro disc studies.

The first project group is granted by the Swiss National Foundation for Scientific Research, the Swiss Cancer Foundation, the AO-International Foundation and by Sandoz Switzerland Ltd. The Swiss Orthopaedic Society and the AO-International Foundation granted the second project, and the third project is granted by the AO- International Foundation.

A fourth project deals with different bone substitutes in combination with growth factors. This is a major collaborative work of several years' commitment with NOVARTIS Company, and CIRS grant (Canadian Institute for Research and Science).

#### **Ad 2:**



Special implant developments for the spine were developed and studied (the patents where I was actively involved turned around more than 6.7 Billions SFr.):

1. Implant for the lumbosacral junction.
2. Implant for the anterior pedicular fixation of the thoraco-lumbar spine.
3. Universal spinal pedicular implant, which has been developed by an engineer of the AO-Group, John Webb and myself (it is presently distributed worldwide).
4. Cage development and standardization of minimal invasive spine surgery.
5. A complete concept of Minimal Invasive Spine Surgery with all the necessary devices was developed and led to market.
6. Presently developing a disc prosthesis and a flexible spinal fixation system.

Most of this work has been done at the Orthopaedic Research Laboratory, McGill University. Together with the implant developments we also have made some anthropo-morphological studies about the pedicle of the human vertebra (research fellow Dr. D. Marchesi).

**Ad 3:**

The clinical research includes the complete field of spinal surgery with a special interest for trauma, spinal stenosis, tumors and deformities (see publication list). In the context, with the experimental work about bone transplantation, there is a special interest in tumor surgery and total hip replacement.

**Ad 4:**

Over the last ten (10) years we have been working out biochemical, electronoptic, and morphological criteria of the aging and degenerating disc in correlation with MRI, spectrometric analysis, immuno assay techniques, discomanometry, biomechanical behavior of the motion segment and randomized clinical patient collectives with low back pain. This research was granted with approximately SFr. 300'000. --/year by the AO-I Foundation and the Swiss National Foundation for Scientific Research and was continued at McGill mainly in cooperation with the Bone and Joint Research Institute at the Shriners Hospital Montreal under Professor Robin Poole.

In the same context is the development of a finite element model of the spine in cooperation with the Institute for Informatic Science University of Bern, University of Laval (Dr. P. Kropf) supported by the NAFO. This whole research concept is significantly supported by personal special grant from the AOI. (see grants)

**Ad 5:**

Initiated several long-term studies and projects in outcome in Orthopaedic Surgery through the affiliation with the MEM Institute for Documentation and Evaluation in Orthopaedic Surgery and the formation of national/ European registries.

**2. External Support**

See grants

### **3. Research Grants**

1981	Research Grant of the AOI Foundation "Development of an animal model for segmental bone transplantation"	(SFr. 20'000)
1982-1984	National Foundation for Scientific Research (Grant no 3.926.0.82) "Bone and joint transplantation under immunosuppression"	(SFr.90'000)
1984-1987	Sandoz (Switzerland) Ltd. Research Grant "Immunosuppression in bone transplantation"	(approx. SFr. 240'000)
1986-1989	National Foundation for Scientific Research (Grant no 3.897.0.86) "Development of a joint allotransplantation animal model"	(SFr. 60'000)
1986-1990	Swiss Cancer Ligue: "Marrow free segmental bone allotransplantation" (together with Dr. Pietro Regazzoni, University of Basel)	(SFr. 140'000)
1986-1988	Research Foundation of the Swiss Orthopaedic Society: "The influence of in-vitro culture and deoxyguanosin on immunogenicity of allogeneic bone transplantation" (together with A.A. Czitrom, Toronto and O. Schwarzenbach)	(SFr. 20'000)
1987-1989	AOI Foundation for Scientific Research "Biomechanical study of different fixation devices at the lumbosacral junction with special reference to a new lumbosacral plate/rod system" (together with Dr. Ch. Etter)	(SFr. 30'000)
1987-1989	AOI Foundation for Scientific Research "A new anterior transpedicular fixation system at the spine: anatomical and biomechanical study"	(SFr. 30'000)
1987-1991	AOI Foundation for Scientific Research "Mechanical stability and bone morphogenetic protein in an animal model" (together with Dr. Ch. Etter and Dr. P. Ochsner)	(SFr. 30'000)
1987-1990	AOI Foundation for Scientific Research ( <u>part I</u> ) "Development of an in-vitro perfusion model for bone and joints"	(SFr. 100'000)
1991-1994	AOI Foundation for Scientific Research ( <u>part II</u> ) "Development of an in-vitro perfusion model for bone and joints"	(SFr. 100'000)
1990-1992	AOI Foundation for Scientific Research "A comparison of MRI with the biochemical composition of normal and degenerated intervertebral disks"; (together with Dr. N. Boos)	(SFr. 145'000)
1990-1992	National Foundation for Scientific Research "Qualitative and quantitative MRI of lumbar intervertebral disc degeneration: A comparative clinical study in patients and asymptomatic volunteers" (together with Dr. N. Boos, Prof. P. Vock and Prof. Boesch)	(SFr. 75'000)
1992-1993	Research Grant STRATEC Company Waldenburg "Biomechanical testing of spine implants: development of a new multidirectional testing machine"	(SFr. 100'000)

1993-1994	National Foundation of Scientific Research (NAFO) National Interdisciplinary Research Program "Informatic Science and Medicine". (together with P. Kropf, Ph.D, Institute for Informatic Science, University of Bern. Project: "SPINET: Spine Movements "Modeling and simulation on a parallel computer")	(SFr. 300'000)
1994-1995	Royal Victoria Hospital Research Institute Fellowship Grant "Quantitative biochemical changes in the human intervertebral disc" (J. Antoniou)	(15'000 Can\$)
1994-1995	Fraser Grant (Royal Victoria Hospital Research Institute) "Mechanical properties of the loaded cadaveric intervertebral disc correlated to its degree of matrix denaturation" (together with T. Steffen, J. Antoniou)	(20'000 Can\$)
1994-1996	Medical Research Council of Canada (MRC MA-12488) "Pressure gradients within the loaded cadaveric intervertebral disc" (together with T. Steffen)	(79'800 Can\$)
1995-1997	AOI-Foundation: Personal Grant for Research and Development(1.005'000 US\$)	
1995	AOI Foundation for Scientific Research "Quantitative magnetic resonance as an accurate diagnostic tool of intervertebral disc matrix, structural integrity, degeneration and repair". (J. Antoniou and M. Aebi.)	(35'934 US\$)
1995-1996	Grant of the Royal Victoria Hospital Research Institute "Lumbar segmental motion patterns and facet joint geometry In degenerative intervertebral disc disease" (M. Aebi and T. Steffen)	Granted, but not funded
1995-1997	Medical Research Council of Canada (MRC MA-13115) "Segmental motion patterns and facet joint orientation in Degenerative intervertebral disc disease" (M. Aebi and T. Steffen)	(96'144 CAD\$)
1996-1997	AO North America Multicenter pilot project for documentation of soft tissue injuries using digital images" (P. Guy, T. Steffen, P. Kropf, M. Aebi)	(24'000 US\$)
1996	Orthopaedic Research and Education Foundation of North America "Matrix composition and integrity - important variables in the quantitative MR assessment of the human lumbar intervertebral disc" (J. Antoniou, M. Aebi)	(15'000 US\$)
1997-1998	AO/ASIF Grant "Quantitative magnetic resonance as an accurate diagnostic tool of intervertebral disc matrix structural integrity, degeneration and repair" (J. Antoniou, M. Aebi)	(41'291 US\$)
1998-1999	AO/ASIF Research Foundation "Efficacy of tricalcium phosphate as bone graft substitute in Achieving interbody spinal fusion with an implant spacer - a biomedical, radiological and histological study" (T. Steffen, D. Marchesi, P. Papin, M. Aebi)	(120'000 SFr.)

1999	AO/ASIF Research Foundation "Quantitative magnetic resonance as an accurate diagnostic tool of intervertebral matrix structural integrity, degeneration and repair" (J. Antoniou, M. Aebi)	(61'200 SFr.)
1999-2001	NOVARTIS – Industrial Grant CAD\$) "TGFB <sub>3</sub> in Bone Substitutes" (M. Aebi)	(800'000
1999-2000	Robert Mathys Foundation "TCP/GF-β3 Cyl. Bone Substitutes. Blocks in vertebral defect model in baboon" (T. Steffen, M. Aebi)	(110'000 US\$)
1999-2001	Robert Mathys Foundation "TCP Bone Substitutes: Impregnated with TGF- β3 used for posterior lumbar interbody fusion" (T. Steffen, M. Aebi)	(180'000 US\$)
1999-2005	Canadian Arthritis Network (CAN) CAD\$/year) "Mechanical and biological implants in degenerative intervertebral disc disease" (T. Steffen, M. Aebi)	(40'000
1999-2002	The Arthritis Society "Biological repair for degenerative intervertebral disc" (T. Steffen, M. Aebi)	(59'400CAD\$/year)
1999-2003	Canadian Network Center of Excellence "Tissue engineering of intervertebral disc repair" (M. Alini, M. Aebi, P. Roughley)	(40'000 CAD\$)
2000	Robert Mathys Foundation "Prefilled cages using TCP/TGF- β3 in sheep model"	(55'000 US\$)
2000-2001	AO/ASIF Foundation "PEEK & POM radiolucent cage wear debris in the sheep model" (T. Steffen, M. Aebi)	(65'000 US\$)
2001	AO-Foundation: Infrastructure Grant (M. Aebi)	(250'000 SFr.)
2002	BAG: Institutional Grant "Alternative Methoden zur Schulmedizin" (A. Busato, Ch. Roder, M. Aebi)	(998'000 SFr.)
2002-2004	AO-ASIF Spine: Institutional Grant "Disc degeneration and aging" (M. Aebi, T. Steffen)	(750'000 SFr.)
2002-2005	AO-ASIF Grant "Bioengineering of disc matrix and stem cells" (J. Antoniou, T. Steffen, M. Alini, M. Aebi)	(150'000 CAD/ year)
2006.2008	KTI-Grant „Decentralized data capture for centralized scientific data collection: Merging clinic information systems and application service provider technology“	

	(M. Aebi, Ch. Röder, E. Benoist, J. Holm)	(653'000 SFr.)
2007-2010	SSE-Grant / Fellowship – Eurospine (M. Aebi)	360'000 €
2008	SIRIS (Schweizer. Implantatregister) – Stiftung für Qualität und Orthopädie, Muri b.B./Schweiz (M. Aebi)	(50'000 SFr.)
2009	Fondation Maurice E. Müller Stiftung für Zertifizierungsprojekt (M. Aebi)	(70'000 SFr.)

## **PUBLICATIONS**

### **a) ORIGINAL PAPERS (peer-reviewed)**

- O1. Aebi M., Huber P.:  
The diameter of the cerebral arteries before and after surgical drainage of brain abscesses.  
Neuroradiology 8: 167-171, 1974
- O2. Russi E., Aebi M., Kraus-Ruppert R., Mumenthaler M.:  
Intracranial giant cell arteritis.  
Journal Neurol. 221: 219-224, 1979
- O3. Aebi M., Fehr H., Finger J., Clémençon G.:  
Experimental microsurgical model in rats preventing duodenogastric reflux.  
Eur. Surg. Res. 12, 294-300, 1980
- O4. Clémençon G.H., Fehr H., Aebi M.:  
Lysolecithin und Stressulcus bei der Ratte.  
Schweiz. Med. Wo. Schr. 110, 863-864, 1980
- O5. Fehr H.F., Aebi M., Finger J., Clémençon G.H.:  
Inhibition of experimental stress ulcer formation in rats.  
Scand. Journal of Gastroenterology 16, Suppl. 67, 187-189, 1981
- O6. Brennwald J., Aebi M., Nigst H.:  
Revaskularisation an der Hand mit Venentransplantaten und die Verwendung von Kunststoffprothesen im mikrovaskulaeren Bereich.  
Therapeutische Umschau 38, 1197-1200, 1981
- O7. Aebi M., Mohler J., Morscher E.:  
Operative stabilization of dislocations, fractures and fracture-dislocations of the cervical spine.  
Annals Acad. Med. Singapore 11, 194-202, 1982
- O8. Aebi M., Mohler J., Zaech G.A., Morscher E.:  
Die operative Behandlung von Halswirbelsaeulenverletzungen.  
Helv. Chir. Acta 50, 199-209, 1983
- O9. Aebi M., Regazzoni P., Rahn B.A., Harder F.:  
Experimental model for bone allografts with and without immunosuppression and microsurgical revascularization.  
Helv. Chir. Acta 51: 641-644, 1984
- O10. Brennwald J., Aebi M.:  
Experimentelle Untersuchung ueber Kunststoffprothesen in der mikrovaskulaeren Chirurgie.  
Handchir., Mikrochir., Plast. Chir. 17: 41-42, 1985

- O11. Aebi M., Mohler J., Zaech G.A., Morscher E.:  
Indication, surgical technique and results of 100 surgically treated fractures and fracture-dislocations of the cervical spine.  
Clin. Orthop. 203: 244-257, 1986
- O12. Aebi M., Mohler J., Zaech G.A., Morscher E.:  
Analysis of 75 operated thoraco-lumbar fractures and fracture dislocations with and without neurological deficit.  
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- P51. Arlet V., Marchesi D., Aebi M.:  
Decompensation following scoliosis surgery: Treatment by increasing the main thoracic curve or Letting the spine go".  
Poster exhibited at the 6<sup>th</sup> International Meeting on Advanced Spine Technique (IMAST), Hyatt Regency, Vancouver BC, Canada, 07.1999
- P52. Arlet V., Marchesi D., Aebi M.:  
M.W. Fixation for Pelvic Obliquity: Early Results  
Poster exhibited at the 6<sup>th</sup> International Meeting on Advanced Spine Technique (IMAST), Hyatt Regency, Vancouver BC, Canada, 07.1999
- P53. Arlet V., Marchesi D., Aebi M.:  
Decompensation following scoliosis surgery: Treatment by increasing the main thoracic curve or Letting the spine go".  
Poster exhibited at the Annual Meeting of the Scoliosis Research Society, San Diego, CA, September 1999
- P54. Antoniou J., Arlet V., Goswami T., Aebi M., Alini M.:  
Matrix composition and turnover in normal versus scoliotic intervertebral discs.  
Poster exhibited at the 46<sup>th</sup> Annual Meeting of the ORS, Orlando, Florida, 03.2000
- P55. Steffen T., Stoll T., Papin P., Reindl R., Marchesi D., Scheck R., Aebi M.:  
Beta tricalcium phosphate bone graft substitutes in spinal fusion: Preliminary results from sheep and baboon study.  
Poster exhibited at the Biomechanics Workshop, Ulm, Germany, 08.2000

- P56. Antoniou J., Beaudoin G., Goswami T., Aebi M., Alini M.:  
Enzymatic alteration of the quantitative magnetic resonance signal in the bovine intervertebral disc.  
Poster exhibited at the 47<sup>th</sup> Annual Meeting of the ORS, San Francisco, CA 02. 2001
- P57. Sen M., Steffen T., Reindl R., Aebi M.:  
Anterior transarticular C1-C2 fixation: A biomechanical study.  
Canadian Spine Society Meeting, Cornerbrook, NF, 03.2003
- P58. Mwale F., Antoniou J., Héon S., Servant N., Kirby G.M., Steffen T., Aebi M., Chalifour L.E.:  
Gender-dependent reductions in vertebrae length, bone mineral density and content by Doxorubicin are not reduced by Dexrazoxane in young rats.  
CCTC, Canadian Connective Tissue Conference, 2003
- P59. Tzantrizos A., Ito K., Aebi M., Steffen T.:  
Increased nucleus pulposus shifting in degenerated discs as a likely cause of segmental instability.  
EuroSpine Annual Meeting, Prague, Czech Republic, September 30-October 4, 2003
- P60. Tzantrizos A., Swanson T., Aebi M., Steffen T.:  
Internal strains in the healthy lumbar intervertebral disc (also subm. for basic award)  
EuroSpine Annual Meeting, Prague, Czech Republic, September 30-October 4, 2003
- P61. Reindl R., Bin Nasser A., Aebi M.:  
Anterior stabilization for fracture-dislocations of the cervical spine.  
OTA 19<sup>th</sup> Annual Meeting, October 9-11, 2003, Salt Lake City, Utah, USA

**g) VIDEO TAPES**

12 Video Tapes on "Surgical Techniques in Spinal Surgery"

**ORAL PRESENTATIONS**

Aebi M.:

4. Deutsch-Oesterreichisch-Schweizerische Unfalltagung Lausanne, June 8-11, 1983  
- Hundemodell zur vaskularisierten und nicht vaskularisierten Knochentransplantation.

Mohler J., Aebi M.:

4. Deutsch-Oesterreichisch-Schweizerische Unfalltagung Lausanne, June 8-11, 1983  
- Indikation, Technik und Resultate der operativen Versorgung von Frakturen des thorakolumbalen Ueberganges.

Aebi M.:

- Poster-Praesentation an der 4. Deutsch-Oesterreichisch-Schweizerischen Unfalltagung Lausanne, June 8-11, 1983  
- Indikationsstellung und Resultate der Osteosynthese von HWS-Verletzungen.

Aebi M.:

- Combined meeting SICOT International Committee and Swiss Association for Orthopaedic Surgery, Bern, November 4, 1983  
- Results of 100 internal fixations of fractures and dislocations of the cervical spine.

Aebi M.:

Jubilaeums-Meeting zum 25-jaehrigen Bestehen der AO Schweiz, Davos, December 5, 1983

- Auto- und Allotransplantation primaer vaskularisierter Tibiaschaftsegmente mit und ohne Immunsuppression beim Hund.

Aebi M., Regazzoni P., Harder F.:

ESSR Meeting (European Society of Surgical Research), April 9-11, 1984

- Experimental bone allotransplantation.

Aebi M.:

Joint Meeting of the Swiss College of Surgeons and the American College of Surgeons, Montreux, June 21, 1984

- Experimental model for bone allografts with and without immunosuppression and microsurgical revascularization.

Aebi M.:

71. Kongress der Deutschen Gesellschaft fuer Orthopaedie und Traumatologie, Nuernberg, September 12-15, 1984

- Knochenallotransplantate mit mikrochirurgischer Revaskularisation im Hundemodell mit und ohne Immunsuppression.

Aebi M., Mohler J., Zaech G., Morscher E.:

Poster presentation SICOT Meeting, London, October 1-6, 1984

- Results in 100 cervical spine injuries treated by internal fixation.

Aebi M.:

Fall-Meeting of the AO-Switzerland, Bern, October 1984

Neurological recovery in relation of the timing and surgical procedure in cervical spine injuries.

Aebi M.:

Wirbelsaeklenkurs der AO, Davos, January 6-11, 1985

- Die Abhaengigkeit der neurologischen Erholung vom Operationszeitpunkt und Operationsvorgehen bei Halswirbelsaeklenverletzungen.

Aebi M., Regazzoni P., Perren S.M., Schwarzenbach O.:

31st Annual Meeting of the Orthopaedic Research Society, Las Vegas, January 21-24, 1985

- Free vascularized allografts of bone segments with immunosuppression by Cyclosporin A.

Aebi M.:

Guest lecture, Western University Chicago, August 6, 1985

- Internal fixation of the thoracolumbar spine injuries.

Aebi M.:

Guest lecture at the Department of Orthopaedic Surgery, Buffalo University, New York State, August 7, 1985

- A new device for internal fixation of the thoracolumbar spine injuries.

Aebi M.:

Guest lecture at the Department of Orthopaedic Surgery, St. Michaels Hospital, University of Toronto, August 8, 1985

- New trends of internal fixation of spinal injuries.

Aebi M.:

Annual Meeting of the British Orthopaedic Research Society, September 17, 1985

- Free segmental bone allografts with microsurgical revascularisation and short time immunosuppression by Cyclosporin A.

Aebi M.:

2. Symposium der Sudeck-Gesellschaft ueber Knochen transplantation, Hamburg, September 26-28, 1985

- Allogene Knochentransplantation im Tierversuch.
- Kombinierte Knochen-/muskulokutane Lappenplastiken bei grossen segmentalen Defekten.
- Vaskulaer gestielte Knochentransplantation bei der Femurkopfnekrose.

Aebi M.:

Herbsttagung der AO, Bern, October 26, 1985

- Klassifikation der Wirbelsaehlenverletzungen.

Aebi M.:

Herbsttagung der AO, Bern, October 26, 1985

- Pathophysiologische Veraenderungen des Rueckenmarkes im Rahmen von Wirbelsaehlenverletzungen.

Aebi M.:

Fortbildung der Klinik fuer Viszeralchirurgie, Bern, October 30, 1985

- Neue Konzepte bei der Stabilisation von Wirbelsaehlenverletzungen.

Aebi M., Schwarzenbach O., Regazzoni P., Perren S.M.:

Symposium der Deutschen Gesellschaft fuer Unfallchirurgie, Berlin, November 13-16, 1985

- Segmentale allogene Knochentransplantation im Tierversuch.

Schwarzenbach O., Swiontkowski M.F., Regazzoni P., Aebi M.:

Kongress der Deutschsprachigen Arbeitsgemeinschaft fuer Handchirurgie, Mikrochirurgie und Plastische Chirurgie, Wien, November 22-23, 1985

- Durchblutungsmessung bei mikrochirurgisch revaskularisierten immunsupprimierten, segmentalen allogenen Knochentransplantaten mittels Laser-Doppler-Flowmetry.

Aebi M.:

Internat. Spine-Course of the AO, Davos, December 8-13, 1985

- Classification of the cervical spine injuries.

Aebi M.:

Continuing education lecture, University of Berne, November 26, 1985

- Scoliosis and other spinal deformities.

Aebi M.:

Fortbildungsveranstaltung Interessengr. OPS-Schwestern Kanton Bern, January 15, 1986

- Prinzipien der modernen Wirbelsaehlenchirurgie.

Aebi M., Schwarzenbach O.:

Fortbildungsveranstaltung Dep Forschung Sandoz Schweiz, Basel, January 16, 1986

- Knochenallotransplantation und Immunsuppression.

Aebi M., Etter Ch., Ganz R.:

International Symposium on Segmental Spinal Instrumentation for Fractures, Tumors and Degenerative Diseases (ISSI), Duesseldorf, March 14-15, 1986

- The application of a modified internal fixator at the lumbosacral spine.

Aebi M., Etter Ch.:

Oeffentliche Fortbildungsveranstaltung Orthopaedische Universitaetsklinik, Inselspital, Bern, May 5, 1986

- Knochenallotransplantation.

Aebi M., Regazzoni P., Schwarzenbach O., Perren S.M.:

Joint Meeting of the Europ. Soc. for Surg. Res. and the Group for the Advancement of Microsurgery, Nancy, May 7, 1986

- Microsurgical revascularized and immunosuppressed bone allografts.

Aebi M., Kehl Th., Etter Ch., Ganz R.:

Italian-American Joint Meeting of Orthopaedic Surg. and Traumatology (MAOST'86), Pavia,  
May 26-31, 1986

- The anterior screw fixation of odontoid fractures: technique and results.

Aebi M.:

Fortbildungsveranstaltung, Chirurgie Permanence Bern-West, August 4, 1986

- Chirurgische Behandlungsmöglichkeiten bei Verletzungen und Erkrankungen der Wirbelsäule.

Etter Ch., Kehl Th., Ganz R., Aebi M.:

Congress of the Hungarian Orthop. Association and the Hungarian Society of Traumatology, Budapest,  
August 31 / September 3, 1986

- Technique and first results of the anterior screw fixation of odontoid fractures.

Etter Ch., Aebi B., Aebi M., Ganz R.:

Deutsche Gesellschaft fuer Orthopaedie und Traumatologie, 73. Tagung in Erlangen, September 10-13, 1986

- Die operative Korrektur der Beinlaengendifferenz. Indikation, Technik und Ergebnisse.

Etter Ch., Aebi M.:

Deutsche Gesellschaft fuer Orthopaedie und Traumatologie, 73. Tagung in Erlangen, September 10-13, 1986

- Die distraehierende dorsale Spondylodese der lumbalen und lumbosakralen Wirbelsaeule beim voroperierten Problempatienten.

Aebi M., Jeanneret B.:

Kongress der Union Schweiz. Chir. Fachgesellschaften, Lucerne, September 18-20, 1986

- Methoden der Reposition und Stabilisation von HWS-Verletzungen.

Aebi M., Regazzoni P., Rahn B.A., Harder F.:

Kongress der Union Schweiz. Chir. Fachgesellschaften, Lucerne, September 18-20, 1986

- Experimentelle Diaphysenallotransplantate unter Immunsuppression.

Kehl Th., Etter Ch., Aebi M.:

Kongress der Union Schweiz. Chirurgischer Fachgesellschaften, Lucerne, September 18-20, 1986

- Brustwirbelfrakturen: Indikation zur operativen und konservativen Therapie.

Aebi M.:

Guest lecture, Annual Meeting of the Dutch Assoc. of Orthop. Residents, Amsterdam, September 27, 1986

- Internal fixation techniques of vertebral fractures.

Aebi M., Regazzoni P.:

Ann. Meeting of the Trustees of the AOI, Montreux, November 8-9, 1986

- Bone allotransplantation.

Etter Ch., Aebi M., Kehl Th., Ganz R.:

50. Jahrestagung Deutsche Gesellschaft fuer Unfallheilkunde, Berlin, November 19-22, 1986

- Operatives Behandlungskonzept und Ergebnisse nach 8 Jahren bei Frakturen des Pilon tibial.

Aebi M.:

Gastreferat Jahreskongress der Schweiz. Gesellschaft fuer Manuelle Medizin, Interlaken, November 27, 1986

- Orthopaedisch-chirurgische Massnahmen bei traumatischen und anderen Instabilitaeten der HWS.

Aebi M.:

Internat. AO Spine-Course, Davos, December 14-20, 1986

- Classification of fractures, fracture dislocations and dislocations of the cervical spine.

Aebi M.:

45. AO Fortgeschrittenen- und Basiskurs, Davos, December 14-20, 1986

- Biomechanik des Fixateur externe.

Aebi M., Schwarzenbach O., Regazzoni P.:

33<sup>rd</sup> Annual Meeting of the Orthopaedic Research Society (ORS), San Francisco, CA. January 19-22, 1987

- Long-term versus short-term immunosuppression in experimental bone allotransplantation.

Aebi M.:

1. Tagung der interdisziplinaren Arbeitsgruppe Wirbelfrakturen, Technische Universitaet Muenchen, Klinikum Rechts der Isar, March 14, 1987

- Operative Therapie der Wirbelfrakturen.

Aebi M., Thalgott J.:

American Spinal Injury Association, Annual Meeting, Boston, March 20-23, 1987

- Stabilization of the lower thoracic and lumbar spine with the internal spinal skeletal fixation system.

Aebi M.:

Guest lectures, 9th International Annual Symposium on the Surgical Treatment of Arthritis, Haifa (Israel), April 22-23, 1987

- Surgical treatment of cervical spine injuries.
- Transpeduncular fixation of the thoraco-lumbar spine with the internal spinal skeletal fixation system.

Aebi M.:

AO-Seminar, Triesenberg (Lichtenstein), May 2, 1987

- Koordination der verschiedenen Fachgebiete bei der Aufnahme eines polytraumatisierten Patienten im Zentralspital mit besonderer Beruecksichtigung der Verletzung grosser Gefaesse und der Wirbelsaeule.

Schwarzenbach O., Regazzoni P., Aebi M.:

International Bone Transplantation Meeting, Bern, May 14-16, 1987

- Immunosuppression on bone allotransplantation.

Thalgott J., La Rocca H.S., Aebi M., Dwyer A., Razza B.:

Annual Meeting of the Internat. Society for the Study of the Lumbar Spine, Rome, May 24-28, 1987

- Arthrodesis of the lumbar spine, using AO-plate fixation and internal spinal skeletal fixation system.

Aebi M.:

Fortbildungsveranstaltung der Rheumatologischen Universitaetsklinik, Inselspital Bern, June 12, 1987

- Skoliose: Wann behandeln, wann ignorieren?

Aebi M.:

Jahreskongress der Schweiz. Gesellschaft fuer Orthopaedie, Bern, June 11-13, 1987

- Dorsale Aufrichtespondylodese bei der lumbalen Erwachsenenaskoliose.

Etter Ch., Fleischhauser J., Boesch U., Schlaepfer F., Aebi M.:

Schweiz. Gesellschaft fuer Orthopaedie, Bern, June 11-13, 1987

- Die translaminaere Verschraubung der lumbo-sakralen Wirbelsaeule - eine biomechanische Untersuchung.

Gautier E., Etter Ch., Staeubli H.U., Aebi M.:

Jahreskongress der Schweizerischen Gesellschaft fuer Orthopaedie, Bern, June 11-13, 1987

- Resultate nach Talusfrakturen.

Zuber K., Rufenacht D., Aebi M., Fretz Chr., Ganz R.:

Jahreskongress der Schweiz. Gesellschaft fuer Orthopaedie, Bern, June 11-13, 1987

- Die praeoperative selektive Angiographie mit Embolisation in der Knochen-und Weichteil-Tumorchirurgie.

Aebi M., Schwarzenbach O., Regazzoni P.:

2ème Symposium International sur les Greffes et Transplantation, Marseille, June 15-17, 1987

- Segmental bone transplantation under immunosuppression.

Aebi M., Thalgott J.:

Annual Meeting of the North American Spine Society, Banff, Alberta (Canada), June 25-28, 1987

- Fractures and dislocations of the thoracolumbar spine treated by the internal spinal skeletal fixation system.

Aebi M.:

SICOT/SIROT-Award paper 1987, 17th SICOT World Congress, Muenchen, August 17-21, 1987

- Segmental bone allografting.



Aebi M.:

Fortbildungsveranstaltungen des Departementes Chirurgie, Kantonsspital Olten, September 21, 1987

- Die Behandlung von HWS-Verletzungen.

Aebi M.:

Fortbildungsveranstaltung der SGO in Bern, October 24, 1987

- Le dépistage des scolioses.
- Conditions générales de la chirurgie des scolioses (anesthésie, réanimation, contrôle de la fonction médullaire).

Gerber N., Aebi M., Blum M.:

BETAKLI. Interdisziplinäre Gespräche, November 25, 1987

- Die Rückenverkrümmung vom Säugling bis zum Greis.

Aebi M.:

Symposium Spinal Surgery, Madrid, November 2-5, 1987

- The spinal skeletal internal fixator system: Basics and application in trauma surgery.
- The spinal skeletal internal fixator system: Applications in different spinal disorders.

Aebi M.:

Wirbelsäulenkurs der AO, December 7-12, 1987

- Klassifikation der Verletzungen der unteren HWS.
- Kombiniertes antero-posteriore Zugang bei HWS-Verletzungen.

Aebi M.:

Französischer Fortgeschrittenenkurs der AO in Davos, December 7-12, 1987

- Classification et indication des lésions thoraco-lombaires.
- Fixation interne des lésions thoraco-lombaires.

Aebi M., Thalgott J., Etter Ch., Kehl Th.:

Spine Federation Meeting, AAOS Annual Meeting in Atlanta, February 7, 1988

- Stabilization of the lower thoracic and lumbar spine with the internal spinal skeletal fixation system.

Aebi M.:

2. Interdisziplinäres Symposium zur Wirbelsäulenchirurgie, Klinikum Rechts der Isar, Technische Universität München, March 1988

- Grenzindikationen zur Chirurgie bei pathologischen Wirbelfrakturen.

Marchesi D., Ruedenberg A., Aebi M.:

SGO-Jahrestagung in Crans-Montana, June 8-11, 1988

- Evolution der konservativ behandelten neuromuskulären Skoliose bei MMC-Patienten.

Marchesi D., Michel M., Schneider E., Aebi M.:

SGO-Jahrestagung, Crans-Montana, June 8-11, 1988

- Experimentelle Nachprüfung eines Zielgerätes für die ventrale transpedikuläre Fixation der thorako-lumbalen Wirbelsäule.

Aebi M., Marchesi D.:

5th International Congress in Cotrel-Dubousset Instrumentation, Paris, June 22-25, 1988

- Application of the CD-instrumentation with pedicular screws in the lumbar and lumbo-sacral spine for instability and deformity.

Marchesi D., Schneider E., Aebi M.:

74. Tagung der DGOT, Saarbrücken, September 16-20, 1988

- Experimentelle Nachprüfung eines Zielgerätes für die ventrale transpedikuläre Fixation der thorako-lumbalen Wirbelsäule.

Aebi M.:

Fortbildung der Medizinischen Klinik, Anna-Seiler-Haus, Inselspital Bern, October 6, 1988

- Orthopaedisch-chirurgische Behandlung skelettaerer Tumor-Metastasen.

Aebi M.:

Habilitationsvortrag, Medizinische Fakultät der Universität Bern, October 12, 1988

- Die Revisionschirurgie der Hüfte.

Aebi M.:

Hop. Ramon y Cajal, Madrid, November 2-4, 1988

- Treatment of odontoid fractures and non-unions. Invited speaker of the international faculty, "Modern techniques and instrumentation in spinal surgery".

Aebi M.:

Jahrestagung der Schweiz. Gesellschaft fuer Muskelkrankheiten, Gwatt, November 5, 1988

- Orthopaedisch-chirurgische Massnahmen bei der neuromuskulaeren Skoliose.

Aebi M.:

Vereinigung der Rheumatologen des Kantons Bern und Nachbarkantone, Bern, November 10, 1988

- Orthopaedisch-chirurgische Behandlung der Spondylolisthesis/Spondylolyse.

Aebi M. et al:

Cervical Spine Research Society, American Section, Key Biscayne, Florida, November 30/December 3, 1988

- Odontoid fractures: Treatment by direct anterior screw fixation.

Aebi M.:

Fortbildungskurs der Schweiz. Gesellschaft fuer Sportmedizin, Inselspital Bern, November 17, 1988

- "Wirbelsaeule".

Aebi M.:

International AO-Spine-Course in Davos, December 4-9, 1988

- Lumbopelvic fixation.

Marchesi D., Aebi M.:

Fortbildungsveranstaltung Physiotherapieschule und Rheumatologische Klinik, Inselspital Bern, December 1,

1988

- Heutige Evaluation und Behandlungstechnik der Skoliose.

Aebi M.:

Symposium: Invited guest speaker, New Horizons in Traumatic and Orthopaedic Surgery, Madrid, January 27-28, 1989

- New trends of internal fixation to the spine.
- Bone banking and bone transplantation.

Aebi M., Ballmer P.T., Richner L., Ganz R.:

AAOS-meeting, Presentation 024, Las Vegas, February 1989

- The acetabular reinforcement ring in primary total hip replacement. A review of 145 cases (paper and scientific poster).

Aebi M.:

Fortbildung fuer das Departement Radiologie, Inselspital Bern, March 1, 1989

- Klassifikation von Wirbelsaeulenverletzungen.

Aebi M.:

III. Symposium ueber Wirbelsaeulen-Chirurgie, Muenchen, March 16, 1989

- Klassifikation der Halswirbelsaeulenverletzungen.

Aebi M., Marchesi D., Coscia M., Etter Ch.:

American Spinal Injury (ASIA) Meeting, Las Vegas, April 2-4, 1989

- Odontoid fractures: treatment with anterior screw fixation.

Aebi M.:

42nd Hip Course, Maurice E. Mueller-Foundation, Bern, April 24-27, 1989

- Bone banking and bone transplantation.
- Acetabular reinforcement ring in primary total hip replacement.

Aebi M.:

Fortbildung der Kliniken des Tiefenau Stadtspitals, Bern, May 2, 1989

- Die Revisionschirurgie der Huefte, eine unvermeidliche Chirurgie?

Aebi M.:

Vortraege im Rahmen einer Forschungsgruppenreise der Orthopaedic Research Society nach China, May 9-21, 1989

Peking University:

- Bone allografting: Experimental considerations and models.

Chengdu Western China University Medical School:

- Devices for Internal Fixation of the Spine.
- Bone allografting.

Shanghai South China University:

- Total hip replacement. Straight stem prosthesis and acetabular reinforcement devices.
- Bone allografting in animal models.

Etter Ch., Coscia M., Aebi M.:

Jahreskongress der SGO, Chur, May 24, 1989

- Die vordere Verschraubung der Densfraktur.

Aebi M.:

Invited speaker Controversies in spinal surgery. Sponsored by The University of Minnesota, Department of

Orthopaedic Surgery, Minneapolis, June 24-26, 1989

- Lower lumbar and sacral fractures. Evaluation and treatment.
- Cervical spine fractures. Conservative versus surgical treatment.

Aebi M.:

43. Kurs fuer Hueftchirurgie, MEM-Foundation, Bern, June 28-30, 1989

- Der Acetabulum Abstuetzring in der Primaerprothetik. Technik und Resultat.

Aebi M., Zuber K.:

Cervical Spine Research Society, European Section Annual Meeting, St. Gallen, June 29/August 1, 1989

- Anterior plating of cervical spine injuries with a predominantly posterior lesion.

Etter C., Coscia M., Aebi M.:

Cervical Spine Research Society, European Section Annual Meeting, St. Gallen, June 29/August 1, 1989

- Anterior screwing of odontoid fractures. Results and complications.

Thalgott J.S., La Rocca S.H., Gardner V., Sasso R., Aebi M.

Combined Meeting Socliosis Research Society and European Spinal Deformities Society, Amsterdam, September 17-22, 1989

- Postoperative infections in spinal implants: A classification and analysis: A multicenter study.

Boos N., Lowery G., Aebi M.:

Combined Meeting Socliosis Research Society and European Spinal Deformities Society, Amsterdam, September 17-22, 1989

- The application of the internal skeletal fixation system for non-traumatic spine disorders.

Aebi M.:

Fortbildung Kinderspital, Bern, September 23, 1989

- Die heutigen Behandlungsmoeglichkeiten der Skoliosen und Kyphosen von Kindern mit Spina Bifida (MMC).

Aebi M.:

Fortbildungsveranstaltung des Bezirksspitals Aarberg, September 25, 1989

- Traumatologie der Wirbelsaeule. Diagnose, Behandlungskonzepte.

Aebi M.:

Fortbildungsveranstaltung Dutch Orthopaedic Association Bilthoven, Holland, September 6, 1989

- The application of the internal fixator in spinal trauma and other spinal disorders.

Aebi M.:

Ain-sham University Medical Center, Course for Surgery of the Hip and Spine, Kairo, October 8-11, 1989

- Lumbosacral fixation.
- Internal fixation of spinal trauma and degenerative disease.

Aebi M.:

82. Fortbildungskurs Schweiz. Ges. fuer Innere Medizin, Bern, October 19-21, 1989

- Stabilisierungsoperationen an der Wirbelsaeule.

Aebi M.:

4th Instructional Course on Operative Spinal Surgery Western Pacific Orthopaedic Association, Triannual

Meeting Operative Spinal Course, Kuala Lumpur, Malaysia, November 15-21, 1989

- Treatment modalities in thoraco-lumbar spine fractures.

Aebi M.:

Invited Guest Lecture 9th Western Pacific Orthopaedic Association Congress, Singapore, November 22-26, 1989

- Internal fixation in thoraco-lumbar spine trauma.

Aebi M:

Instructional Course Lecture, Spinal Section Western Pacific Orthopaedic Association Meeting, Singapore,

November 24, 1989

- Surgical treatment of upper and lower surgical spine injuries.

Aebi M.:

AO-Wirbelsaeulenkurs, Davos, December 4-8, 1989

Halswirbelsaeule:

- Verletzungsformen an der unteren HWS.

Brust und Lendenwirbelsaeule:

- Verletzungen der BWS und HWS: Stabilitaetsbegriff, Klassifikation.
- Uebersicht ueber die ventralen Stabilisationsverfahren an BWS und LWS.
- Roentgenquiz.
- Implantatverankerungen im Sacrum, Nichttraumatische Affektionen:
- Wirbeltumoren und Metastasen.
- Schraubenplatzierung im Sacrum: Praktische Uebung.

Aebi M.:

Fortbildung der Medizinischen Klinik Lory-Spital, Bern, January 10, 1990

- Abklaerung und Behandlungsmoeglichkeiten des chronischen Rueckenschmerzes aus orthopaedischer Sicht.

Aebi M.:

Fortbildungsveranstaltung der Bernischen Gesellschaft fuer Orthopaedische Chirurgie, Bern,  
January 18, 1990

- Diagnostik und Therapie von degenerativen Veraenderungen im Bereich von HWS und LWS.

Aebi M.: 3. Interdisziplinaere Wirbelsaeulentagung. Technische Universitaet Muenchen,  
Klinikum Rechts der Isar, Muenchen, March 17, 1990

- Die Behandlung der pathologischen Fraktur der thoracolumbalen Wirbelsaeule.

Aebi M., Trapp I.:

3. Interdisziplinaere Wirbelsaeulentagung. Technische Universitaet Muenchen, Klinikum Rechts der  
Isar,

Muenchen, March 17, 1990

- Sitzung klinische Anwendungen.

Aebi M.:

45<sup>th</sup> Hip course, Inselspital, Bern March 28, 1990

- Results in total hip replacement with ARR.

Mueller M.E., Aebi M:

45<sup>th</sup> Hip Course Inselspital, Bern March 28, 1990

- Praktische Uebung.

Aebi M:

Réunion annuelle du groupe AO d'Espagne April 20-21, 1990

- L'instrumentation Cotrel-Dubousset: Principe, technique et indications.
- Une nouvelle plaque vissée antérieure pour la colonne cervicale (THSS).

Aebi M.:

"The Cervical Spine -The New Challenge" Symposium, San Antonio, Texas, April 25-29, 1990

- Biomechanics of cervical spine instrumentation. Clinical application.
- Posterior instrumentation of the upper and lower cervical spine.
- Classification of cervical spine fractures and dislocations.
- Surgical treatment of odontoid fractures.
- Anterior plate instrumentation of the lower cervical spine.

Boos N., Schwarzenbach O., Aebi M.:

38. Jahrestagung der Vereinigung Sueddeutscher Orthopaeden Baden-Baden, May 3-6, 1990

- Schmerzen bei Wirbelsaeulen-Tumoren: Beeinflussung durch chirurgisch-orthopaedische Eingriffe.

Aebi M., Boos N., Marchesi D.:

38. Jahrestagung der Vereinigung Sueddeutscher Orthopaeden Baden-Baden, May 3-6, 1990

- Die Anwendung des Cotrel-Dubousset-Instrumentariums mit pedikulaeren Schrauben beim chronischen lumbalen Rueckenschmerz.

Boos N., Marchesi D., Aebi M.:

38. Jahrestagung der Vereinigung Sueddeutscher Orthopaeden Baden-Baden, May 3-6, 1990

- Chronische Rueckenschmerzen nach lumbalen Wirbelsaeuleneingriffen - Moeglichkeiten der chirurgischen Reintervention.

Aebi M.:

"Think Tank": Conference about future developments in spinal surgery, sponsored by Twin Cities  
Scoliosis

Center Minneapolis and Danek, Company for spinal surgery implants, Minneapolis, May 5-9, 1990

- The anterior transpedicular fixation in thoraco-lumbar spine.

Aebi M.:

Invited Speaker Internationales Symposium "Modern Trends in Bone Substitutes" Lucerne, May 11,  
1990

- Modern trends in bone substitutes: biological or artificial bone replacement?

Marchesi D., Ruedeberg A., Aebi M.:

SICOT XVIIIth World Congress, Montreal September 8-15, 1990

- The natural history of conservative treated scoliosis secondary to myelomeningocele.

Boos N., Marchesi D., Aebi M.:

International Congress CD-Instrumentarium, Muenster (BRD), September 20-22, 1990

- The CD-instrumentation in the treatment of spondylolysis and spondylolisthesis.

Magerl F, Harms H., Gertzbein S.D., Aebi M., Nazarian S.: SICOT 18. Congrès international, Montreal, September 9-14, 1990

- A new classification of spinal fractures.

Boos N., Schwarzenbach O., Aebi M.:

Unionskongress der Schweizer Chirurgischen Fachgesellschaften in Lucerne, September 20-22, 1990

- Orthopaedisch-chirurgische Eingriffe bei Wirbelsaeulen-Metastasen.

Aebi M., Marchesi D.:

7<sup>th</sup> Annual Meeting Cervical Spine Research Society, European Section Taormina, Italy, September 24-28, 1990

- Multisegmental fixation of the cervical spine in tumors and other selected spinal disorders.

Boos N., Lowery L., Aebi M.:

76. Tagung der DGOT Zuerich October 10-13, 1990

- Der Fixateur interne bei nicht-traumatischen Indikationen in der Wirbelsaeulen-Chirurgie.

Aebi M.:

AO Spine Course Asia, Singapore, October 10-14, 1990

- Pathogenesis of low back pain.
- Principles and techniques of surgical management in spinal deformities.
- Tumors of the spine.
- Trauma of the thoracic and lumbar spine: Overview of fixation techniques.
- Posterior plate fixation in thoracic and lumbar spine trauma.
- Upper cervical spine injuries: Classification of injuries.
- Screw fixation of the odontoid fractures.
- Lower cervical spine injuries. Overview of fixation techniques.

Aebi M., Dick W., Magerl F.:

AO-Spine Course Asia, Singapore, October 10-14, 1990

- Internal fixation of the spine. Biomechanical and biological considerations.

Aebi M.:

Invited Guest Speaker Combined meeting of the ASIAN-Orthopaedic Association and the Thai Orthopaedic

Association, Pattaya, Thailand, October 16, 1990

- Failed back surgery.

Aebi M.:

Knochen transplantation Symposium Giessen (BRD), November 16-17, 1990

- Immunologische Gegebenheiten beim allogenen Knochen transplantat.

Aebi M.:

52<sup>nd</sup> AO-Course (Spine Course) Davos, December 2-7, 1990

- Practical work IV: Sacral plate.
- Surgical management of metastatic tumors of the spine.
- Implants of the future.
- An approach to the management of cervical spine fractures.

Aebi M., Leutenegger A.:

53. AO-Kurs Davos, December 9-14, 1990  
- Praktische Uebung: Fixateur externe.

Aebi M.:

53. AO-Kurs Davos, December 9-14, 1990

- Die perthrochantere Fraktur und pathologische Fraktur.
- Knochenbank und Knochentransplantation.

Aebi M.:

Fortbildung der Rheumatologie, Universitaetsklinik Inselspital, Bern, February 21, 1991

- Indikation und Technik der chirurgischen Behandlung von Halswirbelsaeulenveraenderungen bei PCP.

Gertzbein S.D., Aebi M., Harms J., Magerl F., Nazarian S.:

AAOS 58<sup>th</sup> Annual Meeting Anaheim, March 7-12, 1991

- A new classification of spinal fractures.

Eggli S., Schlaepfer F., Schneider E., Aebi M.: AAOS

58<sup>th</sup> Annual Meeting, Anaheim, March 7-12, 1991

- Assessment of a new load test device for measuring the rigidity of thoraco-lumbar fixation systems.

Aebi M.:

48<sup>th</sup> Hip Course and Workshop on the Operative Treatment of Osteoarthritis of the Hip and Knee Joints, Bern, March 19-22, 1991

- Bone Bank.

Aebi M.:

Seminar on Treatment of Surgical Spine Disease, Washington University School of Medicine, St. Louis, April 10-13, 1991

- Spine fractures.
- AO techniques in cervical spine fractures.

Aebi M., Benson D.:

Seminar on Treatment of Surgical Spine Disease, Washington University School of Medicine, St. Louis, April 10-13, 1991

- Screw techniques in the cervical spine and lumbar translaminar screw fixation.

Aebi M.:

Fortbildungsveranstaltung ueber degenerative Halswirbelsaeulenerkrankungen, Inselspital Bern, April 25, 1991

- Die funktionellen-invasiven diagnostischen Tests bei den degenerativen Halswirbelsaeulenerkrankungen.
- Die chirurgischen Behandlungsmoeglichkeiten bei den degenerativen Halswirbelsaeulenerkrankungen.

Aebi M.:

Fortbildungsveranstaltung der Onkologischen Abteilung der Medizinischen Universitaetsklinik, Inselspital Bern, May 2, 1991

- Konzept der Tumorchirurgie an der Wirbelsaeule.

Boos N., Marchesi D., Zuber K., Aebi M.: Annual Meeting ISSLS, Heidelberg, May 13-17, 1991

- A comparison of CD-Instrumentation and the AO- Internal Fixator in the treatment of adult lumbar deformity and instability.

Marchesi D., Boos N., Zuber K., Aebi M.:

Annual Meeting ISSLS, Heidelberg May 13-17, 1991

- Translaminar facet joint screws to enhance lumbar and lumbosacral spine fusion.



Marchesi D., Boos N., Zuber K., Aebi M.:

Les 2<sup>es</sup> journées d'orthopédie de St-Jacques, Besançon, June 7-8, 1991

- Tumeurs cervicales: à propos de 19 cas traités chirurgicalement.
- Traitement chirurgical de la scoliose dégénérative du rachis lombaire.

Marchesi D., Boos N., Zuber K., Aebi M.:

Vereinigung Nordwestdeutscher Orthopaeden, 40. Jahrestagung, Cologne, June 14-16, 1991

- Translaminare Verschraubung bei lumbaler Instabilität.

Boos N., Marchesi D., Zuber K., Aebi M.:

Vereinigung Nordwestdeutscher Orthopaeden, 40. Jahrestagung, Cologne, June 14-16 1991

- Transpedikulaere Stabilisation von leichtgradigen Spondylolisthesen.
- Die Behandlung der Spondylolisthesis mit dem CD-Instrumentarium.

Aebi M., Zuber K., Marchesi D.:

Jahreskongress der Schweiz. Ges. fuer Orthopaedie, Basel, June 19-20-22, .1991

- Die vordere Verplattung bei Halswirbelsaeulenerletzungen mit vorwiegend hinteren Laesionen.

Schwarzenbach O., Czitrom A.A., Aebi M., Rahn B..A.:

Jahreskongress der Schweiz. Ges. fuer Orthopaedie, Basel, June 19-20-22, 1991

- Verbesserung des Knochenumbaus von allogenen Knochentransplantaten durch in vitro Kultur.

Etter Chr., Boesch U., Fleischhauer J., Wegmueller A., Schneider E., Aebi M.: Jahreskongress der Schweiz. Ges. fuer Orthopaedie, Basel, June 19-20-22, 1991

- Die Instrumentation der lumbo-sacralen Wirbelsaeule – Biomechanische Testung prinzipieller Systeme.

Marchesi D., Boos N., Zuber K., Aebi M.:

Jahreskongress der Schweiz. Ges. fuer Orthopaedie, Basel, June 19-20-22, 1991

- Die chirurgische Behandlung der degenerativen Skoliose.

Aebi M.:

Guest lecture, McGill University Montreal, Canada, August 15-16, 1991

- Concept of classification and treatment of spinal column injuries.
- Bone and joint allografting and future directions in research.

Aebi M.:

AO Spine Course, Kyoto, Japan, August 23-26, 1991

I.) Trauma: Cervical Spine:

- Classification of injuries.
- Screw fixation of the dens and transarticular screw fixation C1-C2.
- Posterior plate fixation.
- Biomechanics of internal fixation of the cervical spine.

II.) Trauma: Thoracic and Lumbar Spine:

- Classification of injuries.
- Posterior rod fixation techniques and translaminar screw fixation.
- Translaminar screw fixation.

III.) Degenerative Conditions of the Lumbar Spine:

- Posterior fusion of the lumbar spine.
- Spondylolisthesis: Direct stabilization of the pars or reduction and fusion.

Aebi M.:

Paediatrische Fortbildung der Universitaetskinderklinik, Bern, September 12, 1991

- Rueckenprobleme beim Kind und Jugendlichen.

Aebi M., Marchesi D.:

77. Tagung der Deutschen Ges. fuer Orthopaedie und Traumatologie, Hamburg, September 21-24, 1991
- Multisegmentale interne Fixation an der Halswirbelsaeule bei chronischer Polyarthritits.

Boos N., Marchesi D., Aebi M.:

77. Tagung der Deutschen Ges. fuer Orthopaedie und Traumatologie, Hamburg, September 21-24, 1991
- Die Behandlung von chronischen lumbalen Rueckenschmerzen mit dem CD-Instrumentarium: Ein kritischer Vergleich mit dem Fixateur interne.

Marchesi D., Boos N., Aebi M.:

- 8th International Congress on CD-Instrumentation, Minneapolis, September 22-23, 1991
- Surgical management of adult degenerative scoliosis using CDI.

Boos N., Marchesi D., Zuber K., Aebi M.:

- 8<sup>th</sup> International Congress on CD-Instrumentation, Minneapolis, September 22-23, 1991
- Survivorship analysis of pedicular fixation systems in the treatment of degenerative disorders of the lumbar spine.

Aebi M., Marchesi D., Boos N.:

- Annual Meeting Scoliosis Research Society, Minneapolis, September 24-27, 1991
- The treatment of adult lumbar scoliosis with pedicle devices.

Aebi M.:

- Invited Guest Speaker GICD-Course, Berchx-sur-Mer, October 10, 1991
- The alternatives in pedicular fixation in spinal trauma.

Aebi M.:

- American AO/ASIF-Spine Course, Marco Island, Florida, October 13-18, 1991
- Concept of the treatment of cervical spine injuries.
  - Classification of lower cervical spine injuries.
  - Treatment of degenerative adult scoliosis.
  - Complications in posterior lumbar degenerative spine surgery.
  - Concepts of the development of new spinal instrumentations.

Marchesi D., Boos N., Aebi M.:

- Annual Meeting European Spine Society, Rome, October 17-19, 1991
- Surgical treatment of adult scoliosis of the lumbar spine.

Boos N., Marchesi D., Aebi M.:

- Annual Meeting European Spine Society, Rome, October 17-19, 1991
- Treatment of degenerative disorders of the lumbar spine: a survivorship analysis of pedicular fixation systems.

Aebi M.:

- Fortbildungsveranstaltung der Schweiz. Ges. fuer Paediatric, Bern, November 4-7, 1991
- Rueckendeformitaeten: Screening und Diagnostik.

Aebi M.: Fortbildungsveranstaltung der Abteilung fuer Handchirurgie, Inselspital Bern, November 12, 1991

- HWS-bedingte Armschmerzen.

Aebi M.: Schweiz. Ges. fuer paediatric Rehabilitation, Zuerich, November 21, 1991

- Die chirurgische Behandlung der neuromuskulaeren Skoliose.

Aebi M.: Schweiz. Schwesternkurs der AO Waldenburg, November 8, 1991

- Die chirurgische Behandlung von degenerativen WS-Erkrankungen.
- Die chirurgische Behandlung der Skoliose.
- Die chirurgische Behandlung von WS-Tumoren.

Aebi M.:

Fortbildungskurs der Schweiz. Ges. fuer Sportmedizin, Bern, November 21-22, 1991

- Die Rueckendeformitaeten und Rueckenuntersuchung.

Aebi M.:

Deutscher WS-Kurs der AO, Davos, December 1-6, 1991

- Verletzungsformen der unteren HWS und ihre praktische Bedeutung.
- Konzept der Behandlung von HWS-Verletzungen unter besonderer Beruecksichtigung der neurologischen Komplikationen.
- Verletzungen der Brust- und Lendenwirbelsaeule und ihre praktische Bedeutung.
- Behandlung der degenerativen Skoliose.
- Technik der operativen Behandlung von Wirbelsaeulenmetastasen an der Brust- und Lendenwirbelsaeule.

Aebi M.:

Tagung fuer Rheumachirurgie, Freie Universitaet Berlin, December 7, 1991

- Die chirurgischen Moeglichkeiten bei komplexen HWS-Destruktionen bei der chronischen Polyarthrititis.

Aebi M.:

Fortbildung der Luzernischen Aerztegesellschaft, SPZ Nottwil, May 20, 1992

- Die Chirurgie der Bandscheibe aus orthopaedischer Sicht.

Seykora P., Boos N., Marchesi D., Aebi M.:

European Spinal Deformity Society, Lyon, June 17-19, 1992

- The surgical treatment of spondylitis and spondylodiscitis by anterior debridement. Vertebral body reconstruction and instrumented posterior fusion.

Marchesi D., Aebi M.:

European Spinal Deformity Society, Lyon, June 17-19, 1992

- Pedicle fixation devices in the treatment of adult lumbar scoliosis

Brantschen R., Werlen St., KonradL., Aebi M.:

European Spinal Deformity Society, Lyon, June 17-19, 1992

- Potential of remodelling in thoracolumbar burst fractures treated by the AO internal fixator.

Boos N., Wallin A., Boesch Ch., Aebi M.:

European Spinal Deformity Society, Lyon, June 17-19, 1992

- The influence of diurnal water content variations in lumbar intervertebral discs on relaxation times and proton density measurements.

Grob D., Jeanneret B., Aebi M., Markwalder Th.:

Cervical Spine Research Society, 3rd common meeting, Athens, June 25-28, 1992

- Complication of the atlanto-axial fusion with transarticular screw fixation.

Marchesi D., Boos N., Aebi M.:

Cervical Spine Research Society, 3<sup>rd</sup> common meeting (American and European Section), Athens, June 25-28, 1992

- Cervical spine surgery with instrumentation in elderly patients.

Marchesi D., Boos N., Aebi M.:

Cervical Spine Research Society, 3<sup>rd</sup> common meeting, Athens, June 25-28, 1992

- Surgical treatment of cervical spine tumors.

Eggli St., Schlaepfer F., Angst M., Witschger P., Aebi M.:

Schweiz. Gesellschaft fuer Orthopaedie (SGO), Lausanne, June 18-20, 1992

- Steifigkeitsverhalten transpedikulaerer Fixationsysteme.

Grob D., Jeanneret B., Aebi M., Markwalder Th.:

Schweiz. Gesellschaft fuer Orthopaedie (SGO), Lausanne, June 18-20, 1992

- Komplikationen mit der transartikulaeren C1/C2-Verschraubung.

Boos N., Witschger P., Isotalo M., Aebi M.:

Schweiz. Gesellschaft fuer Orthopaedie (SGO), Lausanne, June 18-20, 1992

- Evaluation der Discomanometrie an der LWS im Vergleich mit Disco-gramm und makroskopischem Befund.

Marchesi D., Zuber K., Boos N., Aebi M.:

9<sup>th</sup> International congress on CD instrumentation, Lyon, June 15-16, 1992

- CD instrumentation with screw fixation in elderly patients.

Seykora P., Aebi M., Boos N., Marchesi D.:

9<sup>th</sup> International congress on CD instrumentation, Lyon, June 15-16, 1992

- "Failed back surgery syndrome": Problems, diagnosis and surgical management using the CD Instrumentation.

Boos N., Marchesi D., Zuber K., Aebi M.:

9<sup>th</sup> International congress on CD instrumentation, Lyon, June 15-16, 1992

- Clinical results of CD instrumentation.

Marchesi D., Boos N., Aebi M.:

3<sup>rd</sup> Annual Meeting, European Spine Society, Cambridge (UK), September 3-5, 1992

- Elective lumbar spine surgery with pedicular instrumentation in elderly patients.

Brantschen R., Werlen St., Konrad L., Aebi M.:

3<sup>rd</sup> Annual Meeting, European Spine Society, Cambridge (UK), September 3-5, 1992

- Potential of remodelling in thoracolumbar burst fractures treated by the AO internal fixator.

Boos N., Marchesi D., Zuber K., Aebi M.:

3<sup>rd</sup> Annual Meeting, European Spine Society, Cambridge (UK), 3-5, 1992

- A comparison of the CD instrumentation and the AO internal fixator in the treatment of non-traumatic spinal disorders.

Boos N., Witschger P., Aebi M.:

3<sup>rd</sup> Annual Meeting, European Spine Society, Cambridge (UK), September 3-5, 1992

- The role of discomanometry in the diagnosis of uncontained lumbar intervertebral discs.

Seykora P., Aebi M., Boos N. Marchesi D.:

3<sup>rd</sup> Annual Meeting, European Spine Society, Cambridge (UK), September 3-5 1992

- The diagnosis and surgical treatment of acute pain syndrome after previous operations on the thoracolumbar spine. (read by title)

Aebi M., Gurtner P., Ganz R.:

78 Deutschen Orthopaeden Kongresses, Mannheim (BRD), September 16-20, 1992

- Der Acetabulaere Abstuetzring bei der Revisionshuefte.

Aebi M.:

Fortbildungskurs des 78 Deutschen Orthopaeden Kongresses, Mannheim (BRD), September 18, 1992

- Das WS-Trauma: Diagnostik und therapeutische Prinzipien.

Aebi M.:

Curso AO Avanzados, Universidad Autonoma de Madrid, Facultad de Medicina, Madrid, September 21-25, 1992

- Principios AO aplicados a la columna
- Conceptos del tratamiento en traumatismo de la columna
- Traumatismo de la columna: presentacion de casos y discusion

Aebi M.:

Annual Meeting, Scoliosis Research Society, Kansas City (USA), September 22-25, 1992

- Thoraco-lumbar spine fractures: diagnosis and management.

Aebi M.:

McGill 8<sup>th</sup> Annual Review /Update in Adult Orthopaedics, Montreal, Canada, October 2-4, 1992

- Thoracolumbar spine fractures: diagnosis and management.
- Management of spinal infections.

Aebi M.:

Japanese AO/ASIF Spine Course, Sapporo, October 15-18, 1992

- Classification of spinal injuries
- C1/C2 fixation techniques
- An approach to the management of cervical spine fractures
- Classification of thoraco-lumbar fractures
- An approach to the surgical treatment of degenerative spine disease
- Principles of treatment of osteomyelitis of the spine
- New concepts in instrumentation for scoliosis
- Instruments and implants of the USS

Aebi M.:

Invited Guest Lecturer, University Medical Center, Dept. of Orthopaedic Surgery, University of Hokkaido, Japan, October 19, 1992

- Surgical treatment of the rheumatoid cervical spine

Magerl F., Harms J., Gertzbein S., Aebi M., Nazarian S.:

28. Jahrestagung der Oesterreichischen Gesellschaft fuer Unfallschirurgie, Salzburg, March 1, 1992

- Klassifikation der Verletzung der BWS und LWS

Wawro W., Aebi M.:

28. Jahrestagung der Oesterreichischen Gesellschaft fuer Unfallchirurgie Salzburg, March 1, 1992

- Kurzstreckige Montage des Fixateur interne im thorakolumbalen Bereich.

Aebi, M.:

HWS-Symposium, University of Zurich, Zurich, Switzerland, October 23-24, 1992

- Indications and techniques in anterior cervical spine surgery.

Aebi, M.:

European USS Workshop, Lucerne, Switzerland, October 25, 1992

- Rationale, indications and first results with the universal spine system.

Aebi, M.:

Symposium "Spinal Outlook 92", Ashville NC (USA), October 30 – November 1, 1992

- Principles and possibilities in bone grafting and bone substitutes.
- Technical options for the surgical treatment of upper cervical spine injuries.

Aebi, M.:

General Surgery Grand Rounds, Royal Victoria Hospital, McGill University, Montreal, Canada, November 5, 1992

- Tumor surgery at the spine.

Aebi, M.:

1992 COA-Zimmer Visiting Professorship, Division of Orthopaedic Surgery, University of Toronto, November 30, 1992

- An approach to the surgical management of spinal fractures.
- The value of surgical treatment in polyarthritis of the cervical spine.

Aebi, M.:

Guest Speaker at the 1992 Arthritis Day: A Joint Symposium of Rheumatology, Orthopaedics and Pathology, University of Toronto, December 1, 1992

- Disc degeneration: a multidisciplinary research approach.

Aebi, M.:

"Minding of the Spine", Sponsored by the Twin Cities Scoliosis Center, University of Minnesota, Minneapolis

(USA), Cayman Islands, January 28-31, 1993

- MRI, histology, immunohistochemistry and biochemistry correlation in disc degeneration.

Boos N., Wallin A., Harms S., Voch P., Boersch Ch., Aebi, M.:

39<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, San Francisco (USA), February 15, 1993

- Tissue characterization of normal and herniated lumbar intervertebral discs by quantitative MRI.

Aebi M.:

Seminar: Orthopaedisch-chirurgische Stabilitaetstechniken an der Wirbelsaeule, Ludwig-Maximilians Universitaet Muenchen (BRD), March 5-6, 1993

- Langstreckige dorsale Fusionen bei polysegmentalen Instabilitaeten.

Aebi M.:

Israël Spine Course, Hertzilya, March 30 – April 1, 1993

- C1/C2 transarticular screw fixation.
- Odontoid fixation.
- An approach to the management of cervical spine fractures.
- The application of the Universal Spine System in fractures of the thoracolumbar spine.
- Lumbosacral instrumentation.
- Future trends in spinal surgery.

Aebi, M.:

Continuing Medical Education, Division of Oncology, Department of Medicine, Royal Victoria Hospital, Montreal, Canada, April 28, 1993

- Tumors of the locomotor system: an interdisciplinary challenge.

Aebi, M.:

Journée de Recherche 1993 du "Programme d'Orthopédie Edouard-Samson", Université de Montréal, Montréal, Canada May 14, 1993

- Possibilités chirurgicales dans le traitement de la colonne cervicale polyarthrite.

Aebi, M.:

Annual Canadian Orthopaedic Association Meeting, Montreal, Canada: Instructional Course Lecture, June 1, 1993

- Principles of treatment in cervical spine injuries.

Aebi, M.:

Spine AO/ASIF Trustee Meeting, Segovia, Spain, June 18-21, 1993

- Surgery in the frontline.

Aebi M.:

AO Spine Course, Queen's Medical Centre, Nottingham, UK, July 27-30, 1993

- Classification of cervical injuries, July 27, 1993
- Approach to management of lower cervical spine injuries
- Practical Exercise: Odontoid screw (video), July 28, 1993
- Posterior surgery for thoracic fractures
- Anterior decompression of the cervical spine: an orthopaedic point of view
- Indications and techniques for fusions: Universal Spine System- degenerative scoliosis,

- Practical Exercise: Translaminar screw fixation  
29.7.1993 Spondylolysis-hook screw-buck fusion  
Universal Spine System
- Universal Spine System: principles, July 30, 1993
- Practical Exercise: Universal Spine System: right thoracic scoliosis

Aebi, M.:

SICOT Meeting, Seoul, Korea, August 28 – September 3, 1993

- Posterior approach for thoracolumbar fracture
- Invited Symposium Speaker "Spine Fractures" together with Professor K. Kaneda (Japan).

Mohr G., Black M., Aebi M., Montes J., Pokrupa, R.:

Congrès des Sciences Neurologiques du Québec, Ste-Adèle, Québec, September 24-25, 1993

- Odontoïdectomie transorale et fusion occipito-cervicale par plaques et vis transpédiculaires en deux temps dans l'instabilité atlanto-axiale et l'invagination basilaire.

Aebi M.:

AO/ASIF Spine Course, Hilton Head, South Carolina, October 18-22, 1993.

- Classification: lower cervical spine injuries (C3-C7)
- Approach to the management of lower cervical spine injuries
- Posterior C1-C2 transarticular fixation

Aebi M.:

A Course on Spinal Disorders / Maladies et traumatismes de la colonne: Un Cours Pratique, Sponsored by

the Canadian Orthopaedic Association, Montreal, November 5-7, 1993

- Evaluation technique

Aebi M.:

Medical Grand Rounds, Royal Victoria Hospital, Montreal, November 24, 1993

- The role of the disc in low back pain.

Aebi M.:

McGill's Ninth Annual Review Update on Cervical Spine & Upper Extremity, Montreal, Canada, November 26-27, 1993

- Surgical approaches and management of degenerative and inflammatory disease of the cervical spine.
- Surgical Management of traumatic upper cervical spine instability.
- Indications for surgical management of neoplastic conditions of the cervical spine.

Arlet V., Marchesi D., Dupuis P., Aebi M.:

24<sup>ème</sup> Réunion Annuelle de la Société de la Scoliose du Québec, Québec, Canada, May 6-7, 1994

- L'"Universal spine system" de l'AO: Principes, applications, dans le traitement des scolioses de l'enfant.

Marchesi D., Aebi M.:

American Back Society, Montreal, June 1-5, 1994

- Management of adult scoliosis.
- Management of injuries of the cervical spine.

Steffen T., Rubin R., Antoniou J., Wegmueller M., Aebi M.:

28<sup>th</sup> Annual Meeting of the Canadian Orthopaedic Research Society, Winnipeg, Canada, June 9-12, 1994

- Mechanical testing of cadaveric whole lumbar spine specimens using multiaxial external load histories.

Antoniou J., Goudsouzian N., Steffen T., Zahid A., Hollander A., Nelson F., Poole A.R., Aebi M.:  
28<sup>th</sup> Annual Meeting of the Canadian Orthopaedic Research Society, Winnipeg, Canada, June 9-12,  
1994

- Collagen and proteoglycan synthesis in the developing and degenerated human lumbar intervertebral disc.

Aebi M., Boos N., Nerlich A., Von der Mark K.:

49<sup>th</sup> Annual Meeting of the Canadian Orthopaedic Society, Winnipeg, Canada, June 9-12, 1994

- Localization of type X collagen in human intervertebral discs by immunohistochemistry.

Steffen T., Eugster T., Aebi M., Jakob R.P.:

49<sup>th</sup> Annual Meeting of the Canadian Orthopaedic Society, Winnipeg, Canada, June 9-12, 1994.

- Twelve year follow-up of distal radius fractures reduced with external fixation.

Marchesi D., Boos N., Aebi M.:

49<sup>th</sup> Annual Meeting of the Canadian Orthopaedic Society, Winnipeg, Canada, June 9-12, 1994

- Surgical management in metastatic tumors of the cervical spine.
- Surgical management with pedicle fixation devices in adult lumbar scoliosis.

Aebi M., Marchesi D.:

49<sup>th</sup> Annual Meeting of the Canadian Orthopaedic Society, Winnipeg, Canada, June 9-12, 1994

- Anterior surgery for posterior cervical spine injuries.

Aebi, M.:

Symposium: Die Halswirbelsaeule, Linz, Austria, June 17, 1994

- Verschraubungstechniken bei Verletzungen der oberen HWS

Aebi M:

AO Spine Course, San Remo, Italy, June 19-22, 1994.

- Screw fixation of the odontoid process
- The treatment of the cervical fractures
- Thoracolumbar fractures: the indications for a posterior surgical treatment--Degenerative scoliosis
- The USS in the scoliosis treatment
- Surgical treatment of the spine in rheumatoid arthritis

Aebi M.:

International Meeting on Pedicle Fixation of the Spine and Other Advanced Techniques, Munich,  
Germany,

July 1-2, 1994

- Fractures of the lumbar spine (panel discussion)
- AO Universal Spinal System

Arlet V., Marchesi D., Aebi M.:

1st European GICD Forum, Strasbourg, France, October 10-11, 1994

- The use of the AO-USS in high-grade spondylolisthesis.

Aebi M.:

Thursay Evening Lecture Series, McGill Continuing Medical Education, October 20, 1994

- Musculo-skeletal disorders: evaluation, pathology & diagnosis.

Aebi M.:

AO/ASIF Cours de Base et Symposium des Fractures Complexes, Montreal, October 22-25, 1994.

- Greffe osseuse - biologie et application dans les traumatismes.

Aebi M.:

S.M.A.R.T. Symposium 1995, Current Advances in the Management of Low Back Pain, Montreal,  
January 1, 1995

- Low back surgery: an orthopaedic update.



Antoniou J., Goudsouzian N., Heathfield T.F., Steffen T., Zahid A., Nelson F., Hollander A., Poole A.R., Aebi M.:

41st Annual Meeting Orthopaedic Research Society, Orlando, Florida, February 13-16, 1995

- Evidence for differences in matrix turnover in the developing and degenerated human lumbar intervertebral disc.

Steffen T., Rubin R., Antoniou J., Baramki H., Marchesi D., Aebi M.:

21<sup>st</sup> Annual Meeting, Orthopaedic Research Society, Orlando, Florida, February 13-16, 1995

Aebi M.:

AAOS - Comprehensive Spine Course: "Debating Complex Issues in Spine Surgery, San Francisco, April 5-8, 1995

- Soft tissue injuries: the orthopaedist's dilemma
- Lower cervical spine fractures: anterior and/or posterior approach, wires or plates?

Steffen T., Baramki H., Rubin R., Antoniou J., Zahid A., Aebi M.:

25<sup>ième</sup> réunion annuelle de la Société de la Scoliose du Québec, Magog-Orford, Québec, April 21-22, 1995.

- Des mesures multilocalisées de la pression au sein du disc intervertébral cadaverique.

Steffen T., Baramki H.G., Rubin R., Beckman L., Antoniou J., Marchesi D., Aebi M.:

25<sup>ième</sup> réunion annuelle de la Société de la Scoliose du Québec, Magog-Orford, Québec, April 21-22, 1995.

- Les amplitudes de mouvement et les caractéristiques de mouvement couplé d'un segment lombaire mesurés in-vivo.

Antoniou J., Alini M., Goudsouzian N.M., Heathfield, T.F., Steffen T., Winterbottom N., Poole A.R., Aebi M.:

25<sup>ième</sup> réunion annuelle de la Société de la Scoliose du Québec, Magog-Orford, Québec, April 21-22, 1995

- Différences dans le renouvellement matricielle du disc intervertébral lombaire humain avec âge et dégénération.

Aebi M.:

50<sup>th</sup> Annual Meeting of the Canadian Orthopaedic Society, Halifax, Nova Scotia, June 3-7, 1995.

- Pathological fractures of the spine: Posterolateral approach.

Steffen T., Baramki H.G., Rubin R., Antoniou J., Marchesi D., Aebi M.:

29<sup>th</sup> Annual Meeting of the Canadian Orthopaedic Research Society, Halifax, Nova Scotia, June 3-7, 1995

- Invasive direct measurement of lumbar segmental kinematics.

Steffen T., Baramki H.G., Rubin R., Antoniou J., Zahid A., Beckman L., Aebi M.:

29<sup>th</sup> Annual Meeting of the Canadian Orthopaedic Research Society, Halifax, Nova Scotia, June 3-7, 1995

- Pressure changes in the cadaveric intervertebral disc measured during axial rotation in different flexion/extension positions.

Antoniou J., Alini M., Goudsouzian N., Heathfield T., Steffen T., Baramki H.G., Poole A.R., Aebi M.:

29<sup>th</sup> Annual Meeting of the Canadian Orthopaedic Research Society, Halifax, Nova Scotia, June 3-7, 1995

- Quantitative MR assessment of the human lumbar intervertebral disc related to matrix integrity and composition.

Antoniou J., Alini M., Goudsouzian N., Heathfield T., Steffen T., Poole A.R., Aebi M.:

Canadian Conference on the Musculoskeletal System, Montreal, Canada, June 1995

- Differences in synthesis and degradation in the developing and degenerating human endplate tissue of the lumbar spine.

Aebi, M.:

2<sup>nd</sup> Nordic AO/ASIF Spine Course, Helsinki, Finland, August 31 – September 2, 1995

- Management of cervical spine injuries
- Segmental instrumentation, development of the USS
- Treatment of infections of the spine

Antoniou J., Alini M., Goudsouzian N.M., Heathfield T.F., Steffen T., Nelson F., Hollander A., Winterbottom N., Poole A.R., Aebi M.:

2<sup>nd</sup> Nordic AO/ASIF Spine Course, Helsinki, Finland, August 31 – September 2, 1995

- Evidence for differences in matrix turnover in the developing and degenerating human lumbar intervertebral disc.

Antoniou J., Goudsouzian N.M., Heathfield T.F., Steffen T., Poole A.R., Aebi M., Alini M.:

13<sup>th</sup> Annual Meeting of the Scoliosis Research Society, Asheville, North Carolina, September 13-17, 1995

- Differences in matrix composition and turnover in the developing and degenerating human endplate.

Aebi M.:

Internationales AO-Wirbelsaeulen-Seminar und Workshop, Munich, Germany, October 19-20, 1995

- Die operative Behandlung destrukturierender Tumoren an der Halswirbelsaeule.
- Principles of dorsal correction in scoliosis.
- Osteolytische Destruktionen des Sakrums.

Aebi M.:

Eleventh Annual Orthopaedic Review Course, Montreal, Canada, October 27-28, 1995

- Fractures and dislocations of the cervical spine.

Aebi M.:

Neurology Grand Rounds, Montreal Neurological Institute, McGill University, Montreal, November 3, 1995

- Spinal metastases.

Aebi M.:

AO/ASIF-Foundation, Board of Trustees Meeting 1995, Davos, Switzerland, October 12-15, 1995

- Unstable spine fractures: anterior versus posterior instrumentation.

Aebi M.:

Montreal Spine Course 1995, Montreal, Quebec, November 17-19, 1995

- Cervical spine trauma.

Steffen T., Baramki H.G., Rubin R., Antoniou J., Zahid J., Marchesi D., Aebi M.:

42<sup>nd</sup> Annual Meeting of the Orthopaedic Research Society, Atlanta, Georgia, February 18-22, 1996

- Posterolateral intervertebral disc pressure increase during flexion/rotation - a possible mechanism of disc injury.

Steffen T., Baramki H.G., Rubin R., Antoniou J., Marchesi D., Aebi M.:

42<sup>nd</sup> Annual Meeting of the Orthopaedic Research Society, Atlanta, Georgia, February 18-22, 1996

- In vivo measurement of the L3/L4 segmental motion patterns in the upright, flexed and extended positions.

Heathfield T., Marchesi F., Aebi M., Alini M.:

42<sup>nd</sup> Annual Meeting of the Orthopaedic Research Society, Atlanta, Georgia, February 18-22, 1996

- Metabolic studies of bovine intervertebral disc cells cultured in alginate beads: variation with age and location.

Antoniou J., Goudsouzian, N., Heathfield T., Pike B., Steffen T., Baramki H., Poole A., Aebi M., Alini M.:

42<sup>nd</sup> Annual Meeting of the Orthopaedic Research Society, Atlanta, Georgia, February 18-22, 1996

- Quantitative MR assessment of the human lumbar intervertebral disc related to matrix integrity and composition.

Aebi M.:

AO Spine Seminar, Buenos Aires, Argentina, April 29-30, 1996

- Classification of thoracolumbar fractures
- Principles and techniques in the treatment of idiopathic scoliosis with the USS

Baramki H.G., Steffen T., Rubin R., Antoniou J., Aebi M.:

The Canadian Orthopaedic Research Society Annual Meeting, Quebec City, Quebec, May 1996

- Is the motor conduction altered during neurogenic claudication?

Thalgott J.S., Aebi M., Fritts K., Giuffre J.M.:

International Intradiscal Therapy Society, Amsterdam, Holland, May 1996

- A preliminary report on the new AO non-articulating disc replacement: the titanium interbody spacer (TIS)

Steffen T., Panesar S., Cottle B., Aebi M., Marchesi D.:

51<sup>st</sup> Annual Meeting of the Canadian Orthopaedic Association, Quebec City, Quebec, May 24-25, 1996

- Minimally invasive retroperitoneal surgical approach to the lumbar spine.

Alini M., Heathfield T.F., Goudsouzian N.M., Antoniou J., Marchesi F., Aebi M.:

Annual Meeting of the Canadian Orthopaedic Research Society, Quebec City, Quebec, May 24-29, 1996

- Metabolic studies of bovine intervertebral disc cells cultured in alginate beads: variation with age and spinal location.

Antoniou J., Goudsouzian N.M., Heathfield T.F., Steffen T., Baramki H.G., Aebi M., Alini M.:

Annual Meeting of the Canadian Orthopaedic Research Society, Quebec City, Quebec, ;May 24-29, 1996

- Matrix state and integrity - important variables in the quantitative MR assessment of the human lumbar intervertebral disc.

Boubez G., Steffen T., Reindl R., Mayo N., Dupuis P., Marchesi D., Zukor D., Aebi M.:

51<sup>st</sup> Annual Meeting of the Canadian Orthopaedic Association, Quebec City, Quebec, May 24-29, 1996

- Peri-operative complications in the elderly compared for elective spine surgery and total hip arthroplasty.

Baramki H.G., Steffen T., Rubin R., Antoniou J., Dupuis P., Marchesi D., Aebi M.:

51<sup>st</sup> Annual Meeting of the Canadian Orthopaedic Association, Quebec City, Quebec, May 24-29, 1996

- The use of motor evoked potentials as a follow-up test for lumbar spine decompression.

Antoniou J., Steffen T., Poole A.R., Aebi M., Alini M.:

International Intradiscal Therapy Society, Amsterdam, Netherlands, May 1996

- The human lumbar intervertebral disc: evidence of changes in the biosynthesis & denaturation of the extracellular matrix with growth, maturation, aging and degeneration.

Antoniou J., Goudsouzian N.M., Heathfield T.F., Steffen T., Baramki H.G., Aebi M., Alini M.:

The International Society for the Study of the Lumbar Spine (ISSLS) Meeting, Burlington, Vermont, June 25-29, 1996

- Intervertebral disc matrix integrity and composition - significant variables in the quantitative MR assessment.

Steffen T., Baramki H.G., Rubin R., Antoniou J., Beckman L., Zahid A., Marchesi D., Aebi M.:

The International Society for the Study of the Lumbar Spine (ISSLS) Meeting, Burlington, Vermont, June 25-29, 1996

- Measurement of the L3-L4 segmental motion patterns in the upright, flexed and extended positions.

Aebi M.:

AO/ASIF Advanced Spinal Techniques Course, Montreal, Quebec, Canada, June 28-30, 1996

- Spinal fracture classification.
- Cervifix: presentation of a new system.
- Degenerative scoliosis: indications and surgical techniques.
- Rheumatoid arthritis of the cervical spine: surgical indications and techniques.
- Universal Spine System (USS): concept of scoliosis and kyphosis treatment.

Aebi M.:

AO/ASIF Basic Spine Course for Operating Room Personnel, Montreal, Quebec, June 30, 1996

- USS - Concept of scoliosis and kyphosis treatment.

Aebi M.:

4<sup>th</sup> North European Spine Courses for Surgeons, Nottingham, United Kingdom, September 2-6, 1996

Basic Course

- Posterior surgery for thoraco-lumbar fractures
- Degenerative scoliosis
- Scoliosis, Universal Spine System: Principles

Advanced Course

- Posterior surgery
- Spondylolisthesis: how to reduce and avoid complications
- The University Spine System
- Degenerative scoliosis

Marchesi D., Arlet V., Goytan M., Aebi M.:

31<sup>st</sup> Annual Meeting of the Scoliosis Research Society, September 25-28, 1996

- Unisegmental posterior instrumentation and fusion for thoracolumbar burst fractures.

Steffen T., Baramki H., Rubin R., Marchesi D., Aebi M.:

Quebec Scoliosis Research Society Meeting, Montreal, Quebec, October 3-5, 1996

- Lumbar spinal motion during walking and running.

Aebi M.:

First AO/ASIF Spine Faculty Forum, Broadmoor, Colorado, October 4-6, 1996.

- Current status of AO/ASIF spine continuing education.

Steffen T., Marchesi D., Aebi M.:

7<sup>th</sup> European Spine Society Meeting, Zurich, Switzerland, October 16-19, 1996

- Retroperitoneal approach to the lumbar spine.

Steffen T., Baramki H., Rubin R., Marchesi D., Aebi M.:

7<sup>th</sup> European Spine Society Meeting, Zurich, Switzerland, October 16-19, 1996

- Dimensional lumbar segmental motion patterns measured in healthy subjects.

Aebi M.:

AO/ASIF Regional Spine Course, Dubai, United Arab Emirates, October 23-26, 1996

- Classification of cervical trauma
- Anterior odontoid screw fixation
- Classification of thoracolumbar fractures
- Degenerative scoliosis
- University spinal system: a new concept
- Rheumatoid arthritis of the spine
- Intervertebral cages

Aebi M.:

MISS Symposium, Davos, Switzerland, December 7, 1996

- Anterior column support in MISS: concepts and results

Aebi M.:

AO/ASIF Basic and Advanced Spine Course, Davos, Switzerland, December 8-13, 1996

- Occipito cervical fixation

- Classification of the thoracolumbar spine injuries
- Principles and techniques of the USS in the treatment of idiopathic scoliosis
- Pathomorphology and biochemistry of disk degeneration
- Late onset scoliosis: adult scoliosis
- A concept of scoliosis instrumentation: USS
- Position of USS in the scoliosis and deformity treatment
- Anterior decompression and stabilization
- Infection: debridement, decompression and stabilization

Antoniou J., Pike B., Steffen T., Baramki H.G., Aebi M., Alini M.:

43<sup>rd</sup> Annual Meeting, Orthopaedic Research Society, San Francisco, CA, February 9-13, 1997

- Matrix Composition and integrity: Important variables in the quantitative MR assessment of the human lumbar intervertebral disc.

Heathfield T.F., Goudsouzian N.M., Antoniou J., Aebi M., Alini M.:

43<sup>rd</sup> Annual Meeting, Orthopaedic Research Society, San Francisco, CA, February 9-13, 1997

- Collagen and proteoglycan biosynthesis in cells isolated from intervertebral disc tissues of different ages.

Steffen T., Tsantrizos A., Andreou A., Aebi M.:

Combined Japanese North American Spine Society Meeting, Hawaii, March 1997

- Three-dimensional initial stability provided solely by anterior interbody fusion devices: a comparative study.

Baramki H.G., Steffen T., Dupuis P., Marchesi D., Schondorf R., Aebi M.:

Combined Japanese North American Spine Society Meeting, Hawaii, March 1997

- The effect of neurogenic claudication on central and peripheral motor conduction.

Thalgott J.S., Aebi M., Fritts K., Giuffre J.M.:

Spine Across the Sea, Kamuela, Hawaii, March 1997

- A preliminary report on the new AO titanium interbody spacer.

Thalgott J.S., Aebi M., Fritts K., Giuffre J.M.:

American Spinal Injury Association, Houston, Texas, March 1997

- A preliminary report on the new AO titanium interbody spacer.

Heathfield T.F., Goudsouzian N.M., Aebi M., Alini M.:

Third Canadian Conference on the Musculoskeletal System, Kingston, Ontario, May 1997

- Metabolic studies of bovine intervertebral disc cells cultured in serum-free medium: effect of TGF- $\beta$ 1.

Tsantrizos T., BSc., Andreou A., BSc., Aebi M., Steffen T.:

27<sup>th</sup> Annual Meeting of the Quebec Scoliosis Society, Hull, Quebec, May 2-3, 1997

- Is there an ideal design for an anterior interbody fusion implant?

Rubin R., B.Eng., Steffen T. M.D., Peters T., Ph.D., Aebi M., M.D.:

27<sup>th</sup> Annual Meeting of the Quebec Scoliosis Society, Hull, Quebec, May 2-3, 1997

- 3-D computer animation of spinal segmental kinematics.

Steffen T., M.D., Andreou A., BSc., Rubin R., B.Eng., Tsantrizos A., BSc., Aebi M., M.D.:

27<sup>th</sup> Annual Meeting of the Quebec Scoliosis Society, Hull, Quebec, May 2-3, 1997

- Accuracy and reliability of a 3-D anatomical morphometer.

Arlet V., Marchesi D., Aebi M.:

27<sup>th</sup> Annual Meeting of the Quebec Scoliosis Society, Hull, Quebec, May 2-3, 1997

- Correction of scoliosis with an anterior rigid rod system.

Alini M., Heathfield T.F., Antoniou J., Aebi M.:

31<sup>st</sup> Annual Meeting of the Canadian Orthopaedic Research Society, Hamilton, Ontario, May 31-June 4, 1997

- Metabolic studies of bovine intervertebral disc cells cultured in serum-free medium: effect of TGF- $\beta$ 1.

Goytan M.J., Marchesi D., Aebi M.:

52<sup>nd</sup> Annual Meeting of the Canadian Orthopaedic Association, Hamilton, Ontario, May 31-June 4, 1997

- The use of internal fixation in vertebral osteomyelitis.

Goytan M.J., Marchesi D., Aebi M.:

52<sup>nd</sup> Annual Meeting of the Canadian Orthopaedic Association, Hamilton, Ontario, May 31-June 4, 1997

- Long anterior cervical spine fusion.

Tsantrizos A., Rubin R., Andreou A., Aebi M., Steffen T.:

52<sup>nd</sup> Annual Meeting of the Canadian Orthopaedic Association, Hamilton, Ontario, May 31-June 4, 1997

- Anchorage and stability of anterior interbody fusion implant.

Arlet V., Marchesi D., Aribindi R., Laberge J.M., Aebi M.:

Combined COA/CORS Annual Meeting of the Canadian Orthopaedic Association, Hamilton, Ontario, June 1, 1997

- Release via thoracoscopy in adolescent scoliosis: preliminary report of 7 cases.

Boos N., Drier D., Hilfiker E, Kreis R., Aebi M., Boesch Ch.:

The International Society for the Study of the Lumbar Spine (ISSLS), Singapore, June 2-6, 1997

- Quantitative MRI of symptomatic and asymptomatic disc herniations

Nerlich A., Boos N., Weist I., Aebi M.:

The International Society for the Study of the Lumbar Spine (ISSLS), Singapore, June 2-6, 1997

- Age-related changes in the spatial localization of human intervertebral disc collagens.

Steffen T., Tsantrizos A., Andreou A., Rubin R., Aebi M.:

The International Society for the Study of the Lumbar Spine (ISSLS), Singapore, June 2-6, 1997

- How effective are anterior interbody fusion devices in reducing segmental motion?

Aebi M.:

AO Spine Course, Huatulco, Mexico, July 16-19, 1997

- Principles of treatment in cervical spine injuries
- Rheumatoid arthritis
- Classification of thoracolumbar fractures
- New concepts of scoliosis treatment using the USS
- Degenerative scoliosis

Aebi M.:

5<sup>th</sup> International Spine Course, Nottingham, Great Britain, September 8-11, 1997

Rheumatoid Neck:

- Lower cervical deformity management

Cervical Spine Trauma:

- Case presentations

Basic Science:

- Biomaterials in the spine

Cervical Spine:

- Biomechanics of cervical implants

Papin P., Arlet V., Nasser-Sharif S., Marchesi D., Aebi M.:

28<sup>th</sup> Annual Meeting of the Quebec Scoliosis Society, Quebec, April 24-25, 1998

- Scoliose idiopathique de l'adolescent: Correction par instrumentation apicale

Antoniou J., Arlet V., Goswami T, Aebi M., Alini M.:

28<sup>th</sup> Annual Meeting of the Quebec Scoliosis Society, Quebec, April 24-25, 1998

- Evidence for differences in matrix turnover in scoliotic versus normal intervertebral discs

Borkowski J., Papin P., Dupuis P., Aebi M., Marchesi D.:

28<sup>th</sup> Annual Meeting of the Quebec Scoliosis Society, Quebec, April 24-25, 1998

- Accelerated degeneration adjacent to long lumbar fusion

Downer P.R., Aebi M., Steffen T.:

28<sup>th</sup> Annual Meeting of the Quebec Scoliosis Society, Quebec, April 24-25, 1998

- Alternate source of autologous bone graft in anterior interbody fusion

Baramki H., Steffen T., Dupuis P., Marchesi D., Aebi M.:

28<sup>th</sup> Annual Meeting of the Quebec Scoliosis Society, Quebec, April 24-25, 1998

- The role of electrophysiological testing in predicting clinical outcome following lumbar spinal decompressive surgery

Steffen T., Marchesi D., Aebi M.:

53<sup>rd</sup> Annual Meeting of the Canadian Orthopaedic Association, Ottawa, June 20-23, 1998

- Modular ring retractor system with optical fiber illumination for minimally open spine surgery

Antoniou J., Beaudoin G., Goswami R., Steffen T., Aebi M., Alini M.:

32<sup>nd</sup> Annual Meeting of the Canadian Orthopaedic Research Society, Ottawa June 20-21, 1998

- Apparent diffusion coefficient in the assessment of the intervertebral disc matrix

Steffen T., Gagliardi P., Hurrinag P., Aebi M.:

32<sup>nd</sup> Annual Meeting of the Canadian Orthopaedic Research Society, Ottawa June 20-21, 1998

- Interbody spinal fusion - A compromise between biological and mechanical constraints

Steffen T., Gagliardi, Hurrinag, Aebi M.:

EuroSpine'98, 2<sup>nd</sup> Meeting of the leading European Spine Societies, Innsbruck, Austria, June 23-27, 1998

- Optimal Implant-endplate interface for interbody spinal fusion devices.

Baramki H., Steffen T., Schoendorf R., Aebi M.:

EuroSpine' 98, 2<sup>nd</sup> Meeting of the Leading European Spine Societies, Innsbruck, Austria, June 23-27, 1998

- The effect of neurogenic claudication on neural conduction along the motor pathway.

Alini M., Antoniou J., Beaudoin, Steffen T., Aebi M.:

EuroSpine'98, 2<sup>nd</sup> Meeting of the Leading European Spine Societies, Innsbruck, Austria, June 23-27, 1998

- Assessment of the intervertebral disc matrix through the use of apparent diffusion coefficient.

Goudsouzian N.M., Aebi M., Alini M.:

Fourth Canadian Conference on the Musculoskeletal System, London, Ontario, June 1998

- In situ hybridization of collagen types I and II RNA expression in the bovine intervertebral disc: variation with age.

Aebi M.:

AO/ASIF Comprehensive Spine Course, Montreal, Quebec, July 16-19, 1998

- Thoracolumbar Trauma: Indications and techniques for anterior decompression and stabilization
- Spinal Deformity: New Frontiers: Minimal Invasive Spine Surgery (MISS) or Less Invasive Spine Surgery (LISS)

AO/ASIF Interactive Spine Course, Montreal, Quebec, July 16-19, 1998

Lower Cervical Spine Trauma (case presentations): Which surgical approach? A provocation..

- Regular Adolescent Idiopathic Scoliosis (case presentations): Surgical correction concepts: Derotation? Translation?
- Rigid Adolescent Idiopathic Scoliosis (case presentations): Secondary degeneration below: scoliosis fusion.



- Degenerative Lumbar Spine: Least Invasive Spine Surgery/Minimally - Invasive Spine Surgery in Low Back Surgery
- Challenging Problems (Cervical Spine): (Rheumatoid Arthritis Lower Cervical Spine): Short, Long Fusion: How to Decide?

Steffen T., Aebi M.

33<sup>rd</sup> Annual Meeting of the Scoliosis Research Society, New York, N.Y., September 16-20, 1998

- Implant endplate interface in interbody spinal fusion - A mechanical and biological compromise

Antoniou J., Arlet V., Goswami T., Aebi M., Alini M.:

33<sup>rd</sup> Annual Meeting of the Scoliosis Research Society, New York, N.Y., September 16-20, 1998

- Differences in matrix composition and turnover in scoliotic versus normal intervertebral discs

Arlet V., Papin P., Marchesi D., Aebi M.:

33<sup>rd</sup> Annual Meeting of the Scoliosis Research Society, New York, N.Y., September 16-20, 1998

- Adolescent idiopathic thoracic scoliosis apical correction with pedicle hooks augmented with endplate screws

Aebi M.:

3<sup>rd</sup> Combined Meeting of the Orthopaedic Research Societies of USA, Canada, Europe and Japan, Japan,

September 28-30, 1998

- The Disc: Where all Routes Meet

Goudsouzian N., M., Aebi M., Alini M.:

45<sup>th</sup> Annual Meeting of the Orthopaedic Research Society (ORS), Anaheim, CA, February 1-4, 1999

- In situ hybridization of collagen types I and II RNA expression in the bovine intervertebral disc: variation with age.

Downer P., Aebi M., Steffen T.:

45<sup>th</sup> Annual Meeting of the Orthopaedic Research Society (ORS), Anaheim, CA, February 1-4, 1999

- Regional bone graft harvesting in the lumbar spine.

Dower P., Aebi M., Steffen T.:

International Society for the Study of the Lumbar Spine, Kona HI, June 1999

- Alternate source of autologous bone graft in anterior interbody fusion.

Aebi M.:

AO Comprehensive Spine Course, Larnaca, June 11-13, 1999

Degenerative Lumbar Spine I "General Principles"

- Degenerative scoliosis
- Degenerative Spine II "Low Back Pain Surgery"
- Cage technology
- Minimal invasive frame
- Degenerative Cervical Spine
- Rheumatoid disease of the cervical spine
- Trauma: Cervical Spine
- Management of subaxial fractures: anterior approach
- Spinal Deformity
- Principles: idiopathic scoliosis
- Practical Exercise: PLIF, Syncage, Synframe
- Practical Exercise: Scoliosis-USS – Posterior, anterior, kyphosis

Alini M., Pibouleau L., Aebi M.:

33<sup>rd</sup> Annual Meeting of the Canadian Orthopaedic Research Society, St-John's, Newfoundland, July 3-6, 1999

- Intervertebral disc cell-seeded implants: a preliminary study.

Vaidya R., Aebi M.:

Annual Symposium of the Quebec Orthopaedic Association, Beaupré, Québec

- Surgery of the lumbar spine by mini invasive techniques.

Antoniou J., Arlet V., Goswami T., Aebi M., Alini M.:

33<sup>rd</sup> Annual Meeting of the Canadian Orthopaedic Research Society, St-John's, Newfoundland, July 3-6, 1999

- Differences in matrix turnover in scoliotic versus normal intervertebral discs.

Aebi M.:

71<sup>st</sup> AO/ASIF Basic and Advanced Spine Course, December 12-17, 1999

- Rheumatoid disease of the cervical spine
- Cervical spine trauma (lower CS): Why choose anterior surgery?
- Challenging problems in the cervical spine II: Challenges of decompression & fixation for SAS
- Degenerative lumbar spine II: Decompression ± stabilization ± correction?
- Spondylolisthesis: Surgery indicated: who, when and how?
- Deformities I: Debate: Anterior release (open? Endoscopic?)
- Deformities: Congenital Deformity.
- Practical exercise: MISS Ring, ALIF (syncage), PLIF + translaminar (USS?)

Antoniou J., Beaudoin G., Goswami T., Aebi M., Alini M.:

46<sup>th</sup> Annual Meeting of the Orthopaedic Research Society (ORS), Orlando, Florida, March 2000

- Use of apparent diffusion coefficient in disc degeneration.

Finalist – New Investigator Research Award

Aebi M.:

AO Jubilee Courses for the Middle East Region (AO ORP Course), Cyprus, April 8-11, 2000

Overview of spinal fractures.

Aebi M.:

AO Jubilee Courses for the Middle East Region (AO Comprehensive SpineCourse), Cyprus, April 8-11, 2000

- Thoracolumbar Spine Trauma: Classification of Th-L fractures.
- Deformities: AIS: USS an original concept of treatment and Degenerative/adult scoliosis.
- Degenerative lumbar spine disease: Disc degeneration and aging.
- Minisymposium Minimally Invasive Surgery: Minimal/less invasive concept.
- CS Trauma: AO techniques subaxial CS for trauma.
- CS-Degenerative Disease: CS rheumatoid arthritis.

Antoniou J., Beaudoin G., Goswami T., Aebi M., Alini M.:

Canadian Connective Tissue Conference, Quebec, Quebec, May 2000

- Controlled enzymatic degradation of the extracellular matrix in bovine intervertebral discs induces changes of quantitative MR signals.

Aebi M.

34<sup>th</sup> Annual Meeting of the Canadian Orthopaedic Research Society, Edmonton, Alberta, June 3-7, 2000

- Required improvement for future spinal instrumentation.

Aebi M.:

AOF Trustee Meeting, Vancouver, B.C., June 16, 2000

- Consensus presentation – spine workshop

Aebi M.:

Swiss-Japan Orthopaedic Conference at the M.E. Mueller Institute, University of Bern, Switzerland, August 22, 2000

- New frontiers in spine surgery.

Steffen T., Stoll T., Papin P., Reindl R., Marchesi F., Schenk R., Aebi M.:

Biomechanics Workshop, Ulm, August 2000

- Beta tricalcium phosphate bone graft substitutes in spinal fusion. Preliminary results from a sheep and baboon study.

Aebi M.:

AO/ASIF Spine Masterclass for Surgeons, Nottingham, G.B., September 13-15, 2000

- Degenerative lumbar Spine - Practical Exercise: Live surgical demonstration, MISS, ALIF  
Degenerative scoliosis
- Complex cranio-cervical junction problems

Aebi M.:

Symposium, University of Bern at the M.E. Mueller Center for Orthopaedic Research. October 5, 2000

- Information technology and orthopaedic surgery: how to transfer knowledge.

Aebi M.:

Seminar on Documentation in Orthopaedic Surgery, organized by the Swiss Orthopaedic Society and the

M.E. Mueller Center for Orthopaedic Research, November 18, 2000

- Internet and orthopaedic documentation.

Aebi M.:

Innex User Meeting, Montana, Switzerland, November 24-25, 2000

- Clinical Documentation: MEM – Institut- New web based documentation system

Aebi M.:

Live Surgery Symposium about Minimally Invasive Spine Surgery, Davos, Switzerland, December 8-9, 2000

- Concept of less invasive spine surgery.
- Bone substitute and bone harvesting technology.

Aebi M.:

Symposium on the "Degenerated Vertebral Motion Segments: Basic and Clinical Sciences, January 18-19, 2001

- Less invasive surgery of the degenerated spinal segment.

Aebi M.:

Lecture to the Board of Directors of EFORT, Vienna, Austria, January 26, 2001

- European implant register.

Aebi M.:

Spanish AO-Spine Course, Valencia, Spain, April 5-6, 2001

- Minimal and less invasive spine surgery.

Roughley P., Wei I., Markovic P., Shu L.-L., Spiro B., Aebi M., Alini M.:

4<sup>th</sup> Combined Meeting of Orthopaedic Research Societies, Rhodes, Greece, June 1-3, 2001

- The culture of intervertebral disc cells in a biomatrix. A bioengineering approach for disc repair.

Aebi M.:

Swiss Spine Institute – New Horizon in Spine Surgery: Bone Substitutes, Zurich, October 18-19, 2001

- Growth factors in baboon model

Papin P., Steffen T., Reindl R., Olah A., Arvinte T.M., Stoll T., Böhner M., Aebi M.:

76<sup>e</sup> S.O.F.C.O.T, Paris, France, November 8, 2001

- Bloc de phosphate tricalcique ( $\beta$ -TCP) imprégné de facteur de croissance.

Aebi M.:

75<sup>th</sup> AO Course, Davos, Switzerland, December 9-14, 2001

- Online European Spine Registry (+ computer workshop)
- Diagnosis and management of pseudoarthrosis
- Controversies in subaxial cervical injuries: Case discussion: upper cervical tumors

Aebi M., O'Dowd J., Nolte L.:

Live Surgery Symposium (Less Invasive Spine Surgery – LISS): Berne, Switzerland, Feb. 1-2, 2002

- Minithoracotomy: techniques + instruments
- Synframe and bone harvesting technologies

Aebi M.:

AO/ASIF Coronado Compressive and Interactive Spine Courses, Coronado, CA, April 18-21, 2002

- Classification: Can it Define Treatment and Predict Diagnosis?
- Classification of thoracolumbar fractures
- Fusion techniques
- Open surgical techniques
- Case presentations: Post-traumatic TL (thoracolumbar kyphosis)

Aebi M.:

3<sup>rd</sup> Meeting Spine & Wine International Club, Borgo La Bagnai, Italy, September 26-29, 2002

- Scoliosis in adults
- Vertebro-kyphoplasty

Aebi M.:

AO Interactive Spine Course, Dubai, UAE, October 19-22, 2002

- Cervical Spine Trauma: Treatment of odontoid fractures
- Thoracolumbar Trauma: Classification and diagnosis of thoracolumbar trauma
- Mini Symposium MISS: MISS / LISS Concept
- Cervical Spine Degenerative Disorders and Inflammatory Diseases:  
- Diagnosis, indication, treatment of cervical rheumatoid arthritis

Aebi M.:

Symposium Impact 2002, Introducing Medical Progress – Applying Clinical Treatments, Kursaal Bern, Switzerland, November 9, 2002

- Muskuloskeletale Chirurgie – heute und morgen

Aebi M.:

Oeffentliche Arztvortraege, Bern, Switzerland, December 4, 2002

- Das Kreuz mit dem Ruecken

Aebi M.:

ENDO-Clinic, Hamburg, Germany, May 17, 2003

- European Hip Register – versus national registers

Aebi M.:

AO-Seminar, Essen, Germany, May 22-23, 2003

- Reconstructive spine surgery at the cervico-thoracic junction

Aebi M.:

EFORT Annual Meeting, Helsinki, Finland, June 6, 2003

- Integrated web application of national and European Registers

Aebi M.:

AOSpine Masters Course, Master Class in Spine Surgery, Florence, Italy, April 7-9, 2005

- Goals and role of AOSpine

Aebi M.:

1st International Orthopaedic Trauma Course, Capri, Italy, May 20-24, 2005

- Throaco-Lumbar Fractures
- Spine Fractures - ORIF

Aebi M.:

Symposium am Bethesda-Spital, Basel, Switzerland, May 26-27, 2005

- Chirurgische Möglichkeiten

Aebi M., Schuessmann E., Staub L.P., Agayev E., Moulin P., Roeder C.,

- Spineweek 2008, Geneva 26-31 May 2008

Aebi M.:

Swiss Paraplegic Center Notwil, Switzerland, 2008,

Spine Service Inselspital Bern, University Hospital -University of Bern, Switzerland

Aebi M.:

3. Jahrestagung der Deutschen Wirbelsäulengesellschaft, Ulm/D – 27.-29. November 2008

- Presidential Guest Speaker: - Wirbelsäulenregister der Eurospine
- Eine Notwendigkeit für die Europäischen Fachgesellschaften?

Schlüssmann E, Diel P, Aghayev, E, Zweig T. (Bern, Schweiz), Moulin P, (Nottwil, Schweiz), (Bern, Schweiz), Aebi M., C. Röder (Bern, Schweiz):

- SWISS Spine – Ein nationales HTA-Register für Bandscheibenprothesen

Zweig T, Aghayev E, Aebi M (Bern, Schweiz), Röder C (Bern, Schweiz) Melloh M (Dunedin, New Zealand), Sobottke R (Köln), Domanja S, (Hoyerswerda, D), Moulin P (Nottwil, Schweiz):

- Ergebnisse der lumbalen Studiengruppe der Swiss Spine Registry

**MODERATION**

Aebi M.:

International Symposium on Spinal Segmental Instrumentation (ISSI), Duesseldorf, March 14-15, 1986

Aebi M., Schreiber A.:

Jahresversammlung Schweiz. Ges. fuer Orthopaedie, Bern, June 13, 1987

- Moderation of the session "Wirbelsaeule".

Aebi M., Prof. Kreiss (France):

2ème Symposium International sur les Greffes et Transplantation, Marseille, June 15-17, 1987

- Moderation of the session "Greffes et immunodépression".

Aebi M.:

Moderation Vortragszyklus "Rueckenschmerz" fuer die Volkshochschule Bern, October/November 1987

Aebi M., Senegas A.:

Franzoesischer Fortgeschrittenenkurs der AO, Davos, December 7-13, 1987

- Moderation of the session "Traumatisme de la colonne vertébrale".

Aebi M., Morscher E.:

Schweiz. Gesellschaft fuer Orthopaedie, Jahresversammlung, Montana, 1988

- Moderation of the session "Wirbelsaeule".

Aebi M., Daniaux H.:

Vorsitz 50. AO-Kurs Davos, December 3-8, 1989

Aebi M., Trapp I. :

3. Interdisziplinaere Wirbelsaeulentagung, Technische Universitaet Muenchen, Klinikum Rechts der Isar March 17, 1990

- Moderator of the session "Thorakolumbale Frakturen, klinische Anwendungen".

Aebi M.:

"Think Tank": Conference about future developments in spinal surgery. Sponsored by Twin Cities Scoliosis

Center Minneapolis and Danek Company for Spinal Surgery Implants, May 5-9, 1990

- Moderator of the session "Lumbosacral fixation"

Aebi M., Kuner, Rehn V:

Internationales Symposium "Modern Trends in Bone Substitutes", Lucerne, May 11-12, 1990

- Moderator of the session "Klinische Anwendungen".

Aebi M., Beck E.:

53. AO-Kurs Davos, December 9-14, 1990

- Moderation of the session "Weichteilschaeden".

Aebi M., Magerl F., Kahanovitz N., McCulloch J.A.:

Instructional Course ISSLS, Zuerich, May 10-12, 1991

- Panelist.

Aebi M., Boetel W.:

Deutscher AO-Kurs fuer Wirbelsaeulen Chirurgie, Davos, December 3, 1991

- Modertion of the session "Trauma Brust- und Lendenwirbelsaeule".

Aebi M., Denis F.:

American AO/ASIF Spine Course, Marco Island, Florida, October 13-18, 1991

- Moderation of the session "Thoraco-lumbar Trauma".
- Chairman of the Round Table "The treatment of spondylolysis/spondylolisthesis".

Aebi M., Boetel W.:

Deutscher AO-Kurs fuer Wirbelsaeulen Chirurgie, Davos, December 5, 1991

- Moderation of the "Fireside Discussion".

Webb J.K., Aebi M. (Discussor):

ESDS Lyon, June 18, 1992

- Session 6 "Tumors"

Vasey H., Aebi M.:

SGO Lausanne, June 19, 1992

- Sitzung "Freie Themen "WS"

Mena B., Aebi M.:

AO Course Madrid, September 24, 1992

- Session "The Pelvis".

Aebi M.:

Japanese AO/ASIF Spine Course, October 1992

- Practical exercise: C1/C2 - fixation  
October 2, 1992           Posterior cervical spine plating  
                                  Odontoid screwing
- Practical exercise: Lumbosacral fixation  
October 3, 1992
- Practical exercise: Posterior instrumentation thoracolumbar scoliosis  
October 4, 1992

Aebi M., Kaneda K., Esses S., Webb J.K.:

Round table moderation: Japanese AO/ASIF Spine Course, Sapporo, Japan, October 15-18, 1992

- Anterior versus posterior surgery in thoracolumbar spine fractures

Aebi M.:

AO/ASIF Spine Course, Davos, Switzerland, December 13-18, 1992

- Practical exercise:        Odontoid screw fixation  
December 15, 1992
- Practical exercise:        Posterior instrumentaion of the spine in thoracic scoliosis  
December 16, 1992        The USS System
- Practical exercise:        The lumbosacral fixation  
December 17, 1992

Aebi M., Transfeldt E.:

AO/ASIF Spine Course, Davos, Switzerland, December 13-18, 1992

- Session "Spinal Deformity"

Aebi M.:

Israël AO/ASIF Spine Course, Hertzilya, March 30 – April 2, 1993

- Pannel discussion: anterior versus posterior procedure in thoracolumbar spine fractures.

Aebi, M., Gepstein R.:

Israël AO/ASIF Spine Course, Herzilya, March 30 – April 2, 1993

- Session "Degenerative Spine"

Aebi M., Puhl W.:

3<sup>rd</sup> Conference of European Orthopaedic Research Society, Paris, France, April 19-21, 1993

- Session "Basic Research Spine"

Aebi M, (with Dubousset, Chapin, Roy-Camille, Johnson and Dove)

GICD- Annual Meeting, May 1993

- Panel: Spinal implants in deformities and trauma

Aebi M., Alexander P.:

1993 Canadian Orthopaedic Association Meeting, Montreal, Canada May 30 – June 3, 1993

- Session "Spine"

Aebi M.:

Group Seminar of the AO/ASIF Trustee Meeting, Segovia, Spain, June 8-21, 1993

- Future developments and directions in spinal surgery

Aebi M, Kostuik J.:

XXII Congreso Nacional de Ortopedia, Mexico City, May 2-7, 1994

- The Intervertebral disc: a debate; invited symposium

Aebi M.:

European Spinal Deformities Society Meeting, Birmingham, May 31 – June 3, 1994

Aebi M.:

25ième Réunion Annuelle de la Société de la Scoliose du Québec, Magog-Orford, Québec,

April 21-22, 1995

- Comportement dynamique de la colonne vertébrale scoliothique.

Aebi M.:

Eleventh Annual Orthopaedic Review Course, Montreal, Canada, October 27-28, 1995

- Fractures and dislocations of the lower extremities
- Axial-skeleton pelvis

Aebi M.:

Minimally Invasive Approaches to the Spine: State of the Art and Future Innovations, Zurich, Switzerland,

October 15, 1996

- Endoscopic methods

Aebi M.:

12<sup>th</sup> Annual Orthopaedic Review Course, Mont-Tremblant, Quebec, March 6-9, 1997

- Dysplastic Disease of the Hip (DDH)

Aebi M.:

31<sup>st</sup> Annual Meeting of the Canadian Orthopaedic Research Society Meeting, Hamilton, Ontario, May 31, 1997

- Spine Scientific Session

Aebi M., Johnson G.E.:

52<sup>nd</sup> Annual Meeting of the Canadian Orthopaedic Association Meeting, Hamilton, Ontario, June 1, 1997

Aebi M.:

AO Spine Course, Huatulco, Mexico, July 16-19, 1997

- Columna cervical degenerative

Aebi M.:

The 2<sup>nd</sup> Middle East Spine Group Meeting, Cairo, Egypt, September 24-26, 1997

- Fractures of the spine

Aebi M.:

AO/ASIF Spine Course, Hong Kong, September 28, 1997



- Deformity

Abad-Rico, Aebi, Silva:

4<sup>o</sup> Congreso Sociedad IberoLatinoamericana de Columna Vertebral, Cartagena de Indias, Colombia, October 8-11, 1997

- Panelist: Symposium on Thoracic and Lumbar Fractures - Discussion of clinical cases

Aebi M.:

32<sup>nd</sup> Annual Meeting of the Canadian Orthopaedic Society (CORS), Ottawa, June 20-21, 1998

- CORS scientific poster session: Bone and Cartilage
- Concurrent scientific session: Spine

Aebi M.:

12<sup>th</sup> McGill Orthopaedic Update Course: The Knee - From the Newborn to the Elderly, Mont Tremblant, Quebec, March 26-28, 1999

- Trauma session

Blauth M., Aebi M.:

71<sup>st</sup> AO/ASIF Basic and Advanced Spine Course, December 12-17, 1999

- Cervical spine trauma (upper CS)

Aebi M.:

AO Jubilee Courses for the Middle East Region (AO Comprehensive SpineCourse), Cyprus, April 8-11, 2000

- Thoracolumbar spine trauma
- Miscellaneous

Aebi M.:

CSRS Meeting, European Section, June 21, 2000

- Scoliosis + other deformities in childhood and adolescence

Aebi M., Kaelin A.:

European Spine Registry, Antwerp, Belgium, October 10-14, 2000

- Scoliosis Session

Aebi M.:

CAOS Symposium, Davos, Switzerland, February 7-10, 2001

- Computer navigation in spine surgery

Aebi M.:

Annual Meeting of the European Spine Society of Europe (SSE), Goeteborg, Sweden, Sept. 4-8, 2001

- New technologies in spine surgery
- Documentation and evaluation in spine surgery (**Organizer of session & Moderator**)

Aebi M.:

75<sup>th</sup> AO Course, Davos, Switzerland, December 9-14, 2001

- Controversies in subaxial cervical injuries

Aebi M.:

Congress on BioTechnologies for Spinal Surgery, Halle, Germany, April 11-13, 2002

- Xegones (Discussion and Questions Moderator)

Aebi M.:

AO Interactive Spine Course, Dubai, UAE, October 19-22, 2002

- Mini Symposium MISS – Video Live Surgery
- Cervical Spine Degenerative Disorders and Inflammatory Diseases

Aebi M., Logroscino C.:

4<sup>o</sup> Corso AO Di Chirurgia Del Rachide

- Fratture toraco-lombari

Matamoros C., Aebi M., Leong J.C., Dockendorff I.:

48<sup>th</sup> Congreso Nacional SCCOT 2003. Bogotá, Colombia, April 30-May 3, 2003

- Desayuno Con Los: Capitulo de Columna

Aebi M.:

Live AO Spine Surgery Symposium, Cochin, India, July 4-6, 2003

- Occipito-Cervical Instability, Session 3
- Scoliosis, Session 9

Aebi M, Nohara Y:

9<sup>th</sup> AO Interactive Spine Course, Tokyo, Japan, September 23-25, 2003

Aebi M:

SSE Lunch Workshop: SSE Spine Registry – “Spine Tango”, Prague, Czech Republic, October 2, 2003

Aebi M., Marchesi D.

3<sup>rd</sup> Live Spine Surgery Symposium, Bern, Switzerland, January 24 – 25,, 2003

- Transmission from Innsbruck (A) University Hospital alternating with Lectures and Anatomy Lab  
Aebi M., Heini P.
- Video discussion of vertebroplasty

Aebi M., Noël M.:

AO Spine Course “Surgery of Spine Deformities”, Foz de Iguaçu, Brazil, March 3 – 6, 2004

- Spondylolysis and Spondylolisthesis

Aebi M.:

AOSpine Comprehensive Course, Portoroz, Slovenia, May 24 – 26, 2004

- Mini Symposium MISS: MISS/LISS Concept, Video Live Surgery: MISS in trauma/MISS in deg. lumbar disorder/MISS in disc arthroplasty, Practical exercise.

Aebi M.:

4<sup>th</sup> Live Spine Surgery Symposium, Bern, Switzerland, February 6 – 7, 2004

- Transmission from Innsbruck (A) University Hospital alternating with Lectures and Anatomy Lab

Aebi M.:

30<sup>th</sup> Annual Congress of the Hellenic Spine Society, Samos, September 16 – 19,

- Round Table Discussions V “Spinal Fractures”

Aebi M., Suchomel P.;

SpineWeek Porto, Porto, Spain, June 4 – 5, 2004

- SSE Medal Lecture, Awards and Presidential Address

Aebi M. Ingalhalikar V.T.

2nd Combined (SSE and ASSI) Instructional Course in Spine Surgery (ICSS 2004), Research & Referral Army Hospital, New Delhi, India, October 8-10, 2004

- “Clinical Examination of Cervical Spine” + Cases for discussion

Aebi M. Weidner A.;

AO Wirbelsaeulenseminar; Bewaehrtes und Innovatives in der Wirbelsaeulen Chirurgie, Charité, Berlin, Germany, November 4 – 6, 2004

- Trauma: Untere Halswirbelsaeulenverletzungen (Aebi M., Weidner A.)
- Mini Symposium LISS (Aebi M.)

Aebi M.

81<sup>st</sup> AO Course “AO Spine Masters 1”, and “AO Spine Masters 2”, Davos, Switzerland, December 12 – 17, 2004

Aebi M.

IV Curso Internacional de Avances en Cirurgia de Columna Vertebral "Dr. Eduardo Luque », Centro de Convenciones del Centro Nacional de Rehabilitacion, Mexico City, Mexico, January 21-22, 2005

- Symposium Espondilolistesis I: Reparacion de la Pars. Cuando, por que y para que ? Combinacion con Protesis de Disco.
- Symposium Espondilolistesis II : Reduccion y Fijacion. Cajas o Tornillos Intersomaticos. Cuando y por que ? Acortamiento Vertebral. Cuando, por que y para que ?
- Symposium Osteoporosis : Vertebroplastia vs Cifoplastia. Cavidad vs Presion. Hasta que edad?
- Symposium Escoliosis Degenerativa del Adulto. Que es mas importante corregir? Fijacion Ideal. El desanclaje es por osteoporosis o por rigidez excesiva.

Aebi M.

AOSpine Intervertebral Lumbar Disc Symposium, Davos, Switzerland, March 17-20, 2005

- Plenary session 6: Future perspective in disc treatment

Aebi M., Le Huec J. Ch.

EuroSpine 2005 – Barcelona, Spain, September 21 – 24, 2005

- Awards and Honorary Lectures Session

Aebi M.

3<sup>rd</sup> Trans Atlantic Spine Congress "Innovations in Spine Surgery" Zurich, Switzerland, November 4 – 5, 2005

- Session 6: Live Surgeries from Dallas, Texas and Audience Polling

Aebi M.

Excellence in Spine, AOSpine-Complications in Spinal Access Surgery, Strasbourg, France, November 16-19, 2005

- Thoracic Spine

Aebi M.:

6<sup>th</sup> Live Spine Surgery Symposium, Bern, Switzerland, February 10– 11, 2006

- Afternoon session 4: Cervical Spine

Haas NP, Aebi M, Schlenzka D:

Excellence in Spine. AOSpine Wirbelsäulenseminar: Bewährtes und Innovatives in der Wirbelsäulen Chirurgie. Interaktive Lernveranstaltung. Berlin, BRD, April 6-8, 2006

Aebi M:

Spine 2006: State of the Art in Spinal Disorders: An International Comprehensive Course, Sorrento, Italy, May 18-20

- Adult Deformity Round Table: Scoliosis in adults: de novo and idiopathic. Why I do it and how I do it?

Aebi M, Logroscino C.A.:

Spine 2006: State of the Art in Spinal Disorders: An International Comprehensive Course, Sorrento, Italy, May 18-20

- Lumbar non fusion technology

Aebi M:

AOSpine Cervical Spine Symposium, Majorca, Spain, September 21-24, 2006

- C-spine injuries: clinical application
- Session 6 Basic science and clinical application

Aebi M, Di Silvestre M:

1<sup>st</sup> International Course: New Trends in Spinal Surgery, Bologna, Italy, October 19-21, 2006

- Sagittal deformities

Aebi M, Le Huec J-Ch:  
EuroSpine Meeting, Istanbul, Turkey, October 25-28, 2006

- Motion preservation

Aebi M:  
EuroSpine Meeting, Istanbul, Turkey October 25-28, 2006

- Lunch-Workshop: The aging spine

Aebi M:  
AOSpine Davos 2006 courses, Davos, Switzerland, December 10-15, 2006  
Masters Course: Thoracolumbar trauma

Aebi M:  
AOSpine Davos 2006 courses, Davos, Switzerland, December 10-15, 2006  
Masters Course: Adult scoliosis

Aebi M:  
Nationaler Kongress für Qualitätsmanagement im Gesundheitswesen, Inselspital  
Bern, Switzerland, Mai 31 – June 1, 2007  
- Session 1: Qualität aus Sicht der KonsumentInnen und des Gesundheitssystems,  
und dank praxisnahem Qualitätsmanagement in eine bessere Zukunft?

Aebi M.:  
Spineweek, Geneva/Switzerland, May 26-31. 2008  
- Symposium Interspinous Spaces  
- Sagittal deformities

Aebi M.:  
International Conference on Spine Surgery and Rehabilitation, Milano/Italy October  
6-8, 2008

- Neoplastic Lesion Session

Aebi M. ;  
International Symposium "Surgical Challenges in the Elderly Spine", Zürich / CH, 6-7 März 2009  
- Adult Scoliosis / Lecture: Secondary Adult scoliosis and collapsing curve

Aebi M.:  
BISS – XVI Brussels International Spine Symposium, Brussels/BE – November 20-21, 2009  
- Faculty: Other Spinal Soft Tissues - / Lecture: The Synframe to spare soft tissues  
Tissues surrounding the Spine – Lecture: Is there such a thing as "back sprain"?

Aebi M.:  
Spinal Course Brasil 2009 – Ribeirao Preto/Brasil – November 26.-29, 2009  
- Lecture: Curso técnicas Moernas e Avancos da Cirurgia da Coluna Vertebral / Modulo – Artrodese da  
coluna vertebral / Lecture - Role of fusion: Is fusion dead?