ECM VIII

BONE TISSUE ENGINEERING

June 25-28, 2007 | Convention Centre, Davos, Switzerland
ECM WELCOMES YOU TO DAVOS

Dear colleagues

This meeting continues the ECM congress series held in HDavos.

A single session permits in depth multi-disciplinary set of discussions with clinicians, biologists, chemists, engineers and material scientists on latest research and developments in the field of bone tissue engineering and fracture repair. The intention will be to start the meeting with an overview of clinical problems, move towards current research and finish with a detailed summary and the future work to be done.

Yours sincerely,

Dr R. Geoff Richards
Course Chairman

Prof Charlie W. Archer
Course Chairman

Dr Mauro Alini
Course Chairman

Conference Organisers

R. Geoff Richards- Editor-in-Chief ECM Journal.
Head of Bio Performance of Materials & Devices Program, ARI, AO Foundation, Davos, CH.

Mauro Alini - Scientific Editor ECM Journal.
Head of Tissue Engineering & Biomaterials Program, ARI, AO Foundation, Davos, CH.

Charlie W. Archer - Scientific Editor ECM Journal.
Connective Tissue Biology Research Group, Cardiff Institute of Tissue Engineering & Repair, Cardiff University, Wales, GB.
Dedication

ECMVIII is dedicated to honour of Prof. Dr. med. D.Sc. (h.c.) Stephan M Perren a world-renowned research trauma surgeon for his endless work on bone research, teaching, advising, fostering ideas and mentoring of scientists. Stephan's advice is given with conviction and belief, always in a friendly manner - even when disciplining rowdy students - as I know from personal experience :-)

Stephan was director and co-founder of the Laboratory for Experimental Surgery (now AO Research Institute (ARI)) from 1967-1995. He was also the first director of the Maurice E. Müller Institute for Biomechanics (MIB) from 1982 until 1988 (travelling back and forth from Davos to Bern). Since then he has been Senior Scientific Advisor for ARI and has been involved in teaching about bone biomechanics and the influence of soft tissue and blood supply along with his osteoporosis publicity work all over the world. Stephan is also a founding member of the European Society for Biomechanics. Stephan is first author on 150 publications and co-author in another 850 papers.

When Stephan directed ARI he took the research emphasis towards the area of bone biomechanics. Main focus was placed on the interaction of mechanical and biological influences on bone formation, remodelling, and healing. During this period major progress was made in respect to the biology of internal fracture fixation, whereby new implants (plates with limited or without contact to the underlying bone), and tissue-friendly surgical procedures were developed. He was largely responsible for demonstrating the importance of osseous vascular supply and perfusion in surgical treatment of fractures. Later his interest focused on biocompatibility of different implant materials, their immunological effect and alterations of local resistance to infection, mainly in steel and titanium implants of different design. Since the early 1960s he is an addict of titanium for internal fixation implants. In the early 90's the importance of the material surface was realised by Stephan and work was immediately initiated within this area, which is now my major focus. Stephan was a mentor for me in this area and still often discusses the area with me. I am very proud to have recently published a chapter in the AO Principles of Fracture Management (Second expanded edition) together with Stephan on Implants and materials in fracture fixation.

Stephan recently completed (at 73), a round-the-world tour from Switzerland to Australia and back with a small, single engine plane. The mission called "Spirit of Davos: A Flight for a Global Idea", he (along with his son for part of the journey) circled the earth while spreading information about osteoporosis. Scientific presentations were made to stimulate awareness of the illness, show the possibilities of prevention, diagnosis and therapy, as well as raise funds for the advancement of research in the field.

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leading regeneration
Registration & Conference dinner tickets ECM VIII

Sunday, June 24  18:00 – 19:00 Registration and pick up of conference bags at the Convention Center

Monday, June 25  07:30 – 08:10 Registration and pick up of conference bags at the Convention Center

Conference Secretaries

Sonia Wahl  Jennifer Gysin

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IT Presentation Helpers

Christian Kloeckler  Romeo Accola

All invited talks are 22 minutes (Max) (20-30 slides) to allow 8 minutes discussion per talk
All submitted talks are 12 minutes (10-15 slides) to allow 3 minutes discussion per talk
Chairpersons will cut people off who try to use this time for their talks!!
Scientific Programme

Monday, June 25th

08:30 – 09:00 Welcome

08:30 – 08:40 Erich Schneider, Director AO Research Institute, Davos
Research in Davos.

08:40 – 08:55 Geoff Richards, AO Research Institute, Davos
Dedication of conference to Stephan Perren and information for participants

Clinical Perspective
Session 1 Chair: Geoff Richards

09:00 – 09:30 Pietro Regazzoni (University Hospital Basel, CH)
Current problems in bone fracture treatment

09:30 – 10:00 Paul Heini (Inselsital, Bern, CH)
Trends of treatment of vertebral fractures

10:00 – 10:30 Rainer Schmelzeisen (University Clinic Freiburg, D)
Tissue Engineering in Craniomaxillofacial Surgery

10:30 – 10:45 Fracture healing in a mouse model for senile osteoporosis
M Egermann, P Heil, I Groengroeft, K Ito, W Hofstetter, P Richards

10:45 – 11:00 The role of cyclooxygenase 1 and 2 in fracture repair – Implications for atrophic non-union
CXX Guo, MG Irwin, D Chan, GL Tipoe, KMC Cheung

11:00 – 11:30 Coffee Break

General Biology
Session 2 Chair: Mauro Alini

11:30 – 12:00 Fred Shapiro (Harvard, Boston, USA)
Bone development and its relation to fracture repair

12:00 – 12:30 Juerg Gasser (Novartis, Basel, CH)
Controlling bone formation and resorption

12:30 – 13:00 Clemens Van Blitterswijk (University of Twente, NL)
Non-invasive imaging of hypoxia in tissue engineering

13:00 – 13:30 Thimios Mitsiadis (Zurich University, CH)
Tooth formation & repair with stem cells or other cells

13:30 – 17:30 Afternoon break
Stem cells

Session 3  Chair: Charlie Archer

17:30 – 18:00  Richard Oreffo (Southampton University, GB)
Human Fetal & Adult Osteoprogenitors - Isolation, Lineage Modulation and Potential for Skeletal Regeneration

18:00 – 18:30  Milena Mastrogiacome / Cancedda (Genoa, IT)
Adult stem cells in bone regeneration: advantages and present limitations

18:30 – 18:45  Reporter-Vector systems to monitor osteogenic differentiation
G Feichtinger, B Kloesch, I Kehrer, D Dopler, A Banerjee, M van Griensven, H Redl

18:45 – 19:00  Transcription factor regulation of osteoclastogenesis from embryonic stem (ES) cells
AE Grigoriadis

19:00 – 19:15  HLA-independent use of mesenchymal stem cells for regeneration of bone: Preliminary results of a critical size defect study in the sheep tibia
P Niemeyer, J Vohrer, H Klöppel, S Milz

19:15 - 20:30 Poster session (with refreshments)

Tuesday, June 26th

Biomaterials 1

Session 4  Chair: Jeff Hubbell

08:15 – 08:45  Kevin Shakesheff (Nottingham University, GB)
Injectable Pastes that form Porous Scaffolds for Orthopaedic Applications

08:45 – 09:00  Time-lapsed monitoring of tissue engineered bone
H Hagenmüller, HP Merkle, L Meinel, R Müller

09:15 – 09:30  Modular Enzyme-responsive biomaterials for bone tissue engineering
M Ehrbar, MP Lütolf, SC Rizzi, JA Hubbell, FE Weber

09:30 – 09:45  In vivo evaluation of the hybrid biomaterial calcium phosphate/poly(lactide-co-glycolide) and osteoblastic cells
MM Beloti, PT de Oliveira, JE Davies, L Guan, PSP de Carvalho, AL Rosa

09:45 – 10:00  Carbon fibre renforced polymer (CFRP) cage induces better cells adhesion, spreading and proliferation than poli-eter-eter-ketone (peek) cage. Analysis by a new cellular model for in vitro study of orthopaedic biomaterials
G Barbanti Bròdano, C Morelli, A Gasbarrini, C Di Bona, M Tognon, S Boriani

10:00 – 10:15  Implant osseointegration: in vitro analysis of titanium microtopography
JS Hayes, C Archer, RG Richards

10:15 - 10:45 Coffee Break
Biomaterials 2
Session 5  Chair: Joost D. de Bruijn

10:45 – 11:15  Joost D. de Bruijn UCL, London, GB)
Application of osteoconductive materials in bone surgery

11:15 – 11:45 Marc Bohner (RMS, Bettlach, CH)
The gap between research & clinical applications of bone substitutes

11:45 – 12:00 CaP based in vivo delivery of osteogenic agonist in chick embryo femurs
K Gellynck, M Parkar, P Buxton

12:00 – 12:15 Unique bone substitution of TCP-granulates (Cerasorb®) during degradation in human sinus floor elevations
H Plenk Jr, L Chyplyk, J Lederer

12:15 – 12:30 Long-term release of bioactive BMP2 from CaP ceramics via cell mediated material resorption
E Wernike, W Hofstetter, Y Liu, EB Hunziker, KA Siebenrock, FM Klenke

12:30 – 17:30 Afternoon break
(optional tour of highest brewery in Europe-Monstein- Purchase tickets latest on Monday from Conference Secretaries)

Bone Biomechanics
Session 6  Chair: Keita Ito

17:30 – 18:00  Danny Kelly (Trinity College, Dublin, IRE)
Tissue differentiation steps towards bone formation

18:00 – 18:30  Hans Van Oosterwyck (Leuven, B)
Adaptive bone remodeling: bone as a true smart material

18:30 – 18:45 Mathematical modeling to predict bone forming potency of human mesenchymal stem cells
C De Bari, PV Guillot, NM Fisk, EA Jones, D McGonagle, IM Khan, CW Archer, RA Mitsiadis, N Donaldson, FP Luyten, C Pitzalis, F Dell Accio

18:45 – 19:00 A mathematical model of bone regeneration including angiogenesis: relevance for tissue engineering strategies
H Van Oosterwyck, J Vander Sloten, L Geris

19:00 – 19:15 Human bone fetal cell and polymer biocomposite for bone tissue engineering
DP Pioletti, L Mathieu, L Blecha, PY Zambelli, LL Applegate, PE Bourban

19:15 – 20:30 Poster session (with refreshments)
Wednesday, June 27th

Cell Biology 1
Session 7    Chair: Sophie Verrier

08:30 – 09:00  Willy Hofstetter (Bern University, CH)
Bone remodelling- dedicated to Professor Herbert A. Fleisch, former Head of the Laboratory for Experimental Surgery, Swiss Research Institute, Davos (1963-1967) and former Head of the Department of Pathophysiology, University of Bern (1967-1997), who recently passed away.

09:00 – 09:30  Laurence Vico (St Etienne, FR)
VEGF & bone formation: New perspectives

09:15 – 09:30  Cell cooperation between human osteoprogenitor and endothelial cells: its function on bone tissue engineering M Grellier, R Bareille, C Bourget, N Ferreira Tojais, P Granja, M Barbosa, J Amédée

09:30 – 09:45  Platelet released growth factors boost expansion of endothelial progenitor cells S Lippross, S Verrier, LM Benneker, M Alini

09:45 – 10:00  Integration of sheep peripheral vein endothelial cells into polyurethane scaffolds-delivering angiogenic potential into autologous graft constructs S Verrier, S Lippross, S Hoppe, C Schlickewei, M Alini

10:00 – 10:30 Coffee Break

Cell Biology 2
Session 8    Chair: Willy Hofstetter

10:30 – 11:00  Jan de Boer (University of Twente, Bilthoven, NL)
Controlling osteogenesis by human mesenchymal stem cells

11:00 – 11:15  Two single point mutations in rhGDF-5 enhance ectopic bone formation in a β-tricalciumphosphate scaffold I Beyen, F Plöger, D Bormann, M Kramer, R Luginbühl, W Richter, P Kasten

11:15 – 11:30  From cartilage to bone: The growth plate as an innovative model in the targeting of signalling molecules for tissue engineering in bone and cartilage repair. C Brochhausen, A Kopp, CJ Kirkpatrick


11:45 – 12:00  Generation of osteogenic and vasculogenic implants by perfusion culture of adipose tissue-derived cells. AM Müller, R Galli, C Jaquieri, J Farhadi, I Martin, A Scherberich

12:00 – 12:15  Viability and procollagen-1 expression of cultured human cancellous bone explants using a serum free medium containing TGFβ3. K Jähn, MJ Stoddart, PI Furlong, CW Archer, RG Richards

Free Afternoon
18:00 - Conference Dinner, Ischalp
(Purchase tickets latest on Monday from Conference Secretaries)
Thursday, June 28th

From basic research to clinical applications.
Session 9  Chair: Erich Schneider

09:15 – 09:45  Simon Pearce (AO Research Institute, Davos, CH)
Animal models for bone repair

09:45 – 10:15  Stefan Milz (AO Research Institute, Davos, CH)
Tissue reactions around implants: histological view

10:15 – 10:45  R. Geoff Richards (AO Research Institute, Davos, CH)
Implant surfaces in fracture fixation: In vitro & in vivo

10:45 – 11:15  Coffee Break

Future of Bone Repair
Session 10  Chair: Juerg Gasser

11:15 – 11:45  Jeff Hubbell (EPFL, Lausanne, CH)
Helping bone biology with growth factors

11:45 – 12:15  Chris Evans (Harvard, Boston, USA)
The Facilitated Endogenous Repair of Bone by Gene Transfer

12:15 – 12:45  Stephan Perren (AO Research Institute, Davos, CH)
State of the art and future of bone repair

12:45 – 13:00  Best student oral and poster prizes.

13:00 – 13:15  Mauro Alini (AO Research Institute, Davos, CH)
Conference Summary

13:15  Conference close
1. Jaw periosteal cells: a suitable source for mesenchymal stem cells
   D Alexander, P Kalkreuter, A Munz, J Hoffmann, S Reinert

2. Polylactide and pseudowollastonite dense nanocomposites: New biomaterials for bone tissue engineering
   D Barone, JM Raquez, P Viville, M Anseau, A Belayew, Z Luklinska, R Lazzaroni, P Dubois

3. Osteogenic differentiation of human bone marrow stromal cells in porous scaffolds from mineralized collagen
   A Bernhardt, A Lode, C Mietrach, U Hempel, M Gelinsky

4. Cross-linked polyurethane foams and composites for bone tissue engineering
   S Bertoldi, D Farè, MC Tanz, G Ciapetti

5. Immobilization of human mesenchymal stem cells
   SJ Bidarra, CC Barrias, MA Barbosa, R Soares, PL Granja

6. In vitro production of bone-like tissue: primary osteoblast modification of a dense collagen scaffold
   M Bitar, K Belynnck, M Parkar, R Brown, SN Nazhat, P Buxton

7. Expression of mutant RhoA in osteoblasts in transgenic mice results in altered bone formation in vitro
   G Bluteau, AE Coudert, A Danikas, AE Grigoriadis

8. Correlating cell architecture with osteogenesis: First steps towards live single cell monitoring
   AK Born, M Rottmar, K Maniura-Weber, A Bruinink

9. Surface modification of 45S5 Bioglass®-derived scaffolds for bone tissue engineering
   O Bretcanu, C Vitale Brovarone, E Verna, C Cassinelli, M Morra, C Bianchi, AR Boccaccini

10. PLGA-Microspheres as a release-system for signalling molecules in tissue engineering – first results of prostaglandin E2 release
    C Brochhausen, R Zehbe, B Watzer, S Halstenberg, H Schubert, CJ Kirkpatrick

11. Infected nonunions of long bones treated by autologous mesenchymal stem cell enriched bone grafting
    P Cibir, J Rosocha, V Holovska, S Gromosova, R Morochovic, H Blaskova, T Molcanyi, M Kitka

12. Dynamic mechanical property analysis of hydrogel biomaterial
    W Conrads, J Lu, S Williams

    M Egermann, CA Lill, K Ito, E Schneider

14. Transmission electron microscopy of interfaces between hard tissue and biomaterials
    H Engqvist, A Palmqvist, F Lindberg, T Jarmar, R Branemark, E Emanuelsson, P Thomsen

15. Changes in the physical properties of calcium phosphate matrix during conversion
    M Geiger, D Boardman, M Lisowski, S Sofia

16. cAMP enhances the bone morphogenetic protein-2 (BMP-2)-dependent differentiation of osteoprogenitor cells
    C Ghayor, M Ehrbar, B San Miguel, A Sala, FE Weber

17. Cell induced response by tetracyclines on human bone marrow colonized Bonelike®
    PS Gomes, JD Santos, MH Fernandes

18. Apatite thin film can provide good cell adhesion to poly(vinyl alcohol) hydrogel as an artificial articular cartilage
    T Hayami, K Matsumura, SH Hyon, H Nishikawa, S Hontsu, M Yamamoto
19. Fabrication of nano-HA/PCL composite scaffolds by modified rapid prototyping technique
YT Hyun, SE Kim, HS Yun, SJ Heo, JW Shin

20. Surface Modification of HA and TCP immersed in simulated body fluid
A Jaroenworaluck, N Koolprrchanan, N Kosachan, R Stevens

21. Bisphosphonate based coatings for hard tissue implants
AR Kautz, E Grunow, F Schloittig, M Schnabelrauch

22. X-ray microtomographic study of transport into human dentine following demineralisation
M Kawabata, MP Hector, GR Davis, CR Parkinson, GD Rees, P Anderson

23. Synthetic peptides derived from the knuckle epitope of hBMP-2 were evaluated for inducing
osteogenic differentiation in vitro and in vivo
B Kloesch, B Hering, D Dopler, A Banerjee, M van Griensven, H Redl

24. Modulation of VEGF release form functionalized bone graft material
U Koenig, A Guenther, O Kreft, TH Hanke M Yamamoto, M Gelinsky

25. Distraction bone-engineering in atrophic edentulous mandibles prior to dental implant
insertion
CH Krenkel, W Goriwoda, G Moser, H Plenk Jr

26. Engineering of hypertrophic cartilage with and without poly(glycolic acid) scaffolds
A Kwarciak, A Crewford, I Brook, PV Hatton

27. Effects of EGCG on the differentiation ability of human dental pulp cells in vitro
BH Lee, JW Park

28. Osteogenic potential of late adherent cells of human bone marrow cultures
E Leonardi, D Granchi, V Devescovi, G Ciapetti, B Baldini

29. Porous silk/hydroxyapatite scaffolds for bone tissue engineering
C Li, L Meinel, HP Merkle

30. Low doses of heparin stimulate rat osteoblast differentiation by potentiating bone
morphogenetic protein (BMP)-2 signalling
GH Malik, AW McCaskie, MA Birch

31. 3D printing of hydroxyapatite-like scaffold: From precursor to structure
N Mari-Buyé, E Garreta, C Semino, C Colominas, S Borrós

32. Mechanical behaviour under uniaxial compression of robocast calcium phosphate scaffolds
M Miranda, A Pajares, E Saiz, AP Tomsia, F Guiberteau

33. Synthesis and biocompatibility of porous collagen/chondroitin sulphate/hydroxyapatite
composites for bone tissue engineering
L Moldovan, O Craciunescu, M Balan, EI Oprita, O Zarnescu

34. Porous b-TCP activation with a chitosan/rh-BMP-2 coating
C. Moreno-Vicente, A Civantos, A Abarrategi, V Ramos, JL López-Lacomba

35. Virus-like particles for gene transfer in chondrocytes and mesenchymal stem cells
K Müller-Zahm, IG Richter, W Lüke, I Wilke

36. Expansion of human bone marrow stromal cells within porous scaffolds under perfusion
A Papadimitropoulos, A Braccini, D Wendt, A Barbero, I Martín

37. Osteogenic differentiation of hMSCs in dense collagen scaffolds for bone tissue
engineeringosteogenic differentiation of hMSCs in dense collagen scaffolds for bone tissue
engineering
MH Parkar, K Glynck, PG Buxton

38. Nano-hydroxyapatite microspheres for periodontitis treatment: Preparation and
cytotoxicity studies
AY Pataquiva Mateus, MP Ferraz, FJ Monteiro

39. Osteoblast adhesion on biofunctionalized poly-(ε-caprolactone) surfaces
F Perut, D Granchi, I Amato, G Ciapetti, G Marletta, C Satriano, N Baldini

40. Porous calcium phosphate/chitosan/alginate scaffolds for tissue engineering
MI Popa, N Aelenei, DM Aelenei, M Frunza
41. Osteoblast behaviour on injectable biomaterials intended for augmentation of vertebral compression fractures
   S Ramstedt, A Johansson, H Engqvist, P Thomsen
42. The Stand-Alone T-CUP Bioreactor System: Towards the automated manufacture of engineered bone grafts
   SA Riboldi, M Jakob, JA Frueh, D Cueni, P Pereira, A Scherberich, I Martin
43. Temporal Assessment of cells on biomaterials by confocal microscopy
   JC Roldán, E Chang, L Jazayeri, M Kelantan, U Deisinger, R Detsch, G Grutner
44. A novel HA/TCP Ceramic: Implant design and bone formation
   JC Roldán, U Deisinger, R Detsch, E Chang, M Kelantan, L Jazayeri, G Gurtner, G Ziegler
45. A novel software-based evaluation method for objective quantification of bone regeneration in experimental bone defects
   T Schönberger, J Hahn, P Kasten, NP Südkamp, K Fechner, S Pearce, P Niemeyer
46. Bone tissue engineering using PCL-scaffolds rhBMP-2 and PRP
   KH Schuckert, S Jopp
47. A novel ex vivo culture system for bone repair
   AJ Sloan, EL Smith, M Locke, RJ Waddington
48. Cell culture studies on hydroxyapatite and wollastonite-tricalcium phosphate based materials for tissue engineering
   S Teixeira, M Magallanes, A de Aza, AY Mateus MA Rodriguez, P Pena, MP Ferraz, S de Aza, FJ Monteiro
49. Three-dimensional polymer scaffolds fabricated by surface selective laser sintering (SSLS)
   CE Upton, SM Howdle, KM Shakesheff, VK Popov
50. Bacterial induction of HBD-3 in osteoblasts is dependent on toll like receptor-2 and -4 and is not a result of a de-novo synthesis
   D Varoga, C Wruck, S Lippross, A Seekamp, T Pufe
51. Bone formation on dental implants in a sheep study
   K Voelter, JD Langhoff, K Nuss, B von Rechenberg, T Hefti, F Schlottig
52. Measuring cell adhesion forces as a function of the cell cycle by force spectroscopy
   G. Weder, M. Giazzon, J Polesel-Maris, A Meister, M Liley, H Heinzelmann
53. Endogenous patterns of endothelin-1 expression in osteoblasts are not altered by indirect co-culture with endothelial cells
   B Weyand, PM Vogt, HP von Schreoder
54. A study of strain related bone remodelling of the osseointegrated patient
   DH Xu, W Xu, AD Crocombe
European Cells & Materials provides an international and interdisciplinary forum for publication and discussion for researchers in the following fields:

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- Properties of bone, cartilage & connecting tissues, including ligaments & tendons.
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2008

ECM IX: Internal Fixation: From Research to the Clinics, Fifty Years of AO.
June 16-18, 2008, Congress Centre, Davos, Switzerland
(3 day single session meeting, with free afternoons)
Abstract deadlines Oral April 1st 2008, Poster May 1st 2008
June 19 – AO Research Institute Reunion in its 50th year. 1 day single session (Free to all ECMIX registrants)

2009

ECM X: Spinal Motion Segment: From Basic Science to Clinical Application
Date to be announced. Congress Centre, Davos, Switzerland
(4 day single session meeting, with free afternoons)

2009

22nd European Conference on Biomaterials (ESB2009), Montreux, Switzerland. 7th 11th, September 2009. http://www.esb2009.org

The Swiss Society for Biomaterials is honoured to host the 22nd European Conference on Biomaterials, the annual conference of the European Society for Biomaterials. It is our pleasure to invite you to ESB2009 to be held September 7th - 11th, 2009 in the historic town of Montreux within the French speaking West Switzerland, on the shores of lake Geneva at the foothills of the Swiss Alps. Estimated attendance 1500 with 4 parallel sessions.

Dr. Geoff Richards
President Swiss Society for Biomaterials
ESB2009 Organisers: Christine. Wandrey, Marc Bohner, R Geoff Richards
The need for water treatment

- 1.1 billion people are without safe water
- Diarrhoea cause 2.2 million death per year
- Every 15 seconds a child is dying due to diarrhoea (each day, 6000 children).

This situation can be improved with the application of adequate methods to treat drinking water. SODIS (Solar Water Disinfection) is a simple method to improving the microbiological quality of drinking water: contaminated water is filled into transparent PET-bottles and exposed to the sunlight for 6 hours. During the solar exposure the UV-A radiation destroys diarrhoea causing bacteria, viruses, Giardia and Cryptosporidium. The efficiency of the method has been tested through laboratory evaluation and field tests by the reputed Swiss water research institute EAWAG and other research institutes in Ireland, England and the USA. Various epidemiological studies conducted in Bolivia and Kenya by the Swiss Tropical Institute and the Irish Royal College of Surgeons have shown that people using SODIS treated water have significantly less diarrhoea than before.

SODIS is simple to apply by the user with very low cost as the only resources required are PET-bottles and sunlight. Encompassing effort and resources however are required to disseminate the information about SODIS, create awareness and train the people in need. To face the global water crisis, partnerships are established with Lions Clubs in Developing Countries and resources collected in industrialized countries to support SODIS dissemination projects.

ECMVIII congress has provided each of you with one bottle of water, for which we have paid 5 Swiss Francs to help support this cause. If you wish to help, please make a contribution of any Swiss Francs you may have when leaving the conference in the donation box at the registration desk.

This extremely simple, yet effective, use of nature (sunlight- UV-A radiation) with the PET bottle, destroys diarrhoea causing bacteria in drinking water. The Lions clubs motto is “We Serve” and ECM’s motto is World-wide ‘Free access to all’, so ECM is proud to disseminate the information about SODIS and make a small financial contribution. ECMVIII congress has paid 5 Swiss Francs to provide each of you with one bottle of water and help support this appeal.

If you wish to contribute to this cause, please deposit any remaining Swiss Francs you may have – when leaving the conference – in the donation box at the registration desk. Thanks!

Editor-in-Chief ECM journal and ECM Congresses organiser.