X. World Congress on High Altitude Medicine and Physiology & Mountain Emergency Medicine
Hypoxia and Cold – From Science to Treatment

EURAC research
Bozen/Bolzano, Italy
25-31 May 2014
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Welcome message

The World Congress on High Altitude Medicine and Physiology & Mountain Emergency Medicine is an initiative of the International Society for Mountain Medicine (ISMM) and the International Commission for Alpine Rescue (ICAR MEDCOM) to share knowledge and competence in the broad field of mountain medicine, including high altitude physiology and pathophysiology, high altitude illness, cold injuries, hypothermia, trauma and rescue, in an exchange between scientists, physicians, paramedics, rescuers and mountaineering professionals.

We are more than pleased to welcome the event to the European Alps for the first time in the history of the congress and to dedicate half of the scientific/technical programme to mountain emergency medicine and rescue. We have invested particular interest in planning a congress that will maintain the highest scientific standards while increasing interest from emergency and technical personnel, promoting talented work of young investigators and encouraging student friendly opportunities.

Organized and hosted by the EURAC Institute of Mountain Emergency Medicine, situated in the heart of the Dolomites in Bolzano, Italy, the congress venue is bound to impress.

Welcome to Bolzano!
Sincerely,
Prof. Buddha Basnyat, MD
President, International Society of Mountain Medicine

Prof. Hermann Brugger, MD
Head, EURAC Institute of Mountain Emergency Medicine

Congress venue
European Academy of Bozen/Bolzano (EURAC research)
EURAC convention center
Viale Druso 1
39100 Bozen/Bolzano, Italy
www.ismm2014.org

Hosting institutions
EURAC Institute of Mountain Emergency Medicine
EURAC meeting management
www.eurac.edu

Registration and info-desk
The registration and info-desk are in the main entrance of the congress venue.
Opening hours:
Sunday, 25 May: 14:00-18:00
Monday, 26 May – Saturday, 31 May: 8:00-18:00

Accreditation
For information on accreditation of this event at the national and international level please consult the website or ask at the info-desk.

Slide centre
Speakers must submit their presentation in electronic form to the technician at the on-site slide centre well in advance of their session. This is the only possibility to access your presentation in the conference rooms.

Internet access
We offer open internet access to all participants over the wireless network “OpenAir”.

Registration fees
Registered participants have access to all programme sessions and free workshops, the welcome aperitif, coffee breaks and lunch. Medical workshops, guided excursions and the gala dinner are not included in registration fees and require pre-registration and payment. Coffee breaks and lunch will be served in the EURAC garden at the congress venue.

Language
The official language of the congress is English. Simultaneous translation in Italian and German will be available for main sessions only (in the Auditorium).

Exclusion of liability
The organizers decline all liability for losses, accidents or damages—whatever the causes—to persons or goods. Participation in the conference, excursions and social events is at your own risk.
2.2 About ISMM World Congress

The International Society for Mountain Medicine (ISMM) was founded in 1985 by the medical commission of the Union Internationale des Associations d’Alpinisme (UIAA MEDCOM). The Society aims to bring together physicians, scientists and allied professionals interested in mountain medicine, to encourage research on all aspects of mountains, mountain people and mountaineers, and to spread scientific and practical information about mountain medicine around the world.

The ISMM World Congress series has been held approximately every two years since 1986 in mountainous regions around the globe, including La Paz in Bolivia, Matsumoto in Japan, Arica in Chile, Xining and Lhasa in China/Tibet, Aviemore in Scotland, Arequipa in Peru and Taipei in Taiwan. We are pleased to welcome the X. event to the European Alps for the first time in the history of the congress.

2.3 About EURAC Institute of Mountain Emergency Medicine

The EURAC Institute of Mountain Emergency Medicine was opened in 2009 as the first research institute in this field. The Institute was founded with the aim to achieve an internationally recognised, evidence-based scientific standard of excellence in the field of mountain emergency medicine through the methodical acquisition of epidemiological and experimental data.

The Institute’s fields of interest are all aspects of emergency medicine with a particular focus on the influence of geographic/logistical factors and extreme environmental factors on the pathophysiology (experimental methods), epidemiology (observational) and on-site treatment (position papers/clinical trials) of cold injuries, trauma and other acute illnesses.

The Institute is part of the European Academy of Bozen/Bolzano (EURAC research), an independent research centre founded in 1992. EURAC is home to eleven research institutes and over 300 researchers who work together on a wide range of interdisciplinary projects. Experts in law and natural sciences, linguists and geneticists collaborate with public and private agencies towards the resolution of some central issues of our day. Together they contribute to create a future-oriented Europe.

2.4 Congress partners

International Society for Mountain Medicine (ISMM)
International Commission for Alpine Rescue, Medical Commission (ICAR MEDCOM)
International Mountaineering and Climbing Federation, Medical Commission (UIAA MEDCOM)
Wilderness Medical Society (WMS)
Medical University Innsbruck
University of Insubria, Varese
University of Padova
Alpine Club South Tyrol AVS
Asian Pacific Society for Mountain Medicine APSMM
Austrian Society of Mountain and High Altitude Medicine ÖGAMM
Central Medical Commission of the Italian Alpine Club CAI MEDCOM
German Society for Mountain and Expedition Medicine BEXMED
Italian Alpine Club CAI
Italian Society of Mountain Medicine SIMeM
Spanish Society of Mountain Medicine SEMAM
Swiss Alpine Club SAC
Swiss Society of Mountain Medicine SGGM

Useful tips to Bolzano

Downtown shops
Opening hours: Monday - Friday 9:30-18:00 (closed for lunch 13:00-15:00)
Saturday 9:30-12:00 (some until 18:00)

Transportation
For information about local public transport please contact the registration desk or go to http://www.mobilocard.info/en/mobilocard.asp
Local Taxi service: +39 0471 981 111

Public parking
Via Trieste 21, Lido Bolzano
Via Pernthoner 8, City Parking P2

Regional Hospital Bolzano
Via Lorenz Böhler 5
39100 Bozen/Bolzano, Italy
Emergency number: 118

Closest pharmacy
Farmacia Passazi Maria & C.S.N.C.
Viale Druso 19
39100 Bozen/Bolzano, Italy
Tel. +39 0471 287559
Opening hours: Monday-Friday 8:30–12:30 and 15:00–19:00
Saturday and Sunday closed

EMERGENCY NUMBER- 118

In collaboration with

Institutional partners
Medical University Innsbruck
University of Insubria, Varese
University of Padova

With participation of

Alpine Club South Tyrol AVS
Asian Pacific Society for Mountain Medicine APSMM
Austrian Society of Mountain and High Altitude Medicine ÖGAMM
Central Medical Commission of the Italian Alpine Club CAI MEDCOM
German Society for Mountain and Expedition Medicine BEXMED
Italian Alpine Club CAI
Italian Society of Mountain Medicine SIMeM
Spanish Society of Mountain Medicine SEMAM
Swiss Alpine Club SAC
Swiss Society of Mountain Medicine SGGM

Useful phrases:

Hi!
English
Hallo!
German
Ciao!
Italian

Good morning!
German
Buon giorno!
Italian

How are you?
English
Co vala pa?
Ladin

Come sta?
Italian

EMERGENCY NUMBER: 118
3 Faculty

3.1 Scientific committee

<table>
<thead>
<tr>
<th>Member</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>Beall, Cynthia</td>
<td>Professor, Anthropology, Case Western Reserve University, Cleveland, United States</td>
</tr>
<tr>
<td>Cazzarini, Max</td>
<td>Director/Professor, Institute of Veterinary Physiology, University of Zurich, Switzerland</td>
</tr>
<tr>
<td>Ge, Rui-Li</td>
<td>Director/Professor, Research Center for High Altitude Medicine, Qinghai University Medical College, China</td>
</tr>
<tr>
<td>Gnaiger, Erich</td>
<td>Dept. of General and Transplant Surgery, D. Swarowski Research Laboratory, Medical University of Innsbruck, Austria</td>
</tr>
<tr>
<td>Hackett, Peter</td>
<td>Director, Institute for Altitude Medicine, Telluride; Clinical Professor, Emergency Medicine, University of Colorado, Denver School of Medicine, United States</td>
</tr>
<tr>
<td>Marpaeur, Heimo</td>
<td>Professor, Medicine and Physiology, Medical University of Innsbruck, Austria</td>
</tr>
<tr>
<td>Parati, Gianfranco</td>
<td>Professor, Cardiovascular Medicine, Dept. of Health Sciences, University of Milano-Bicocca; Head, Dept. of Cardiovascular, Neural and Metabolic Sciences, S. Luca Hospital, IRCCS Institute Auxologico Italiano, Milano, Italy</td>
</tr>
<tr>
<td>Richlet, Jean-Paul</td>
<td>Professor, Physiology, Université Paris 13; Clinical Physiology and Sports Medicine Dept., Hopital Avicenne, Bobigny, France</td>
</tr>
<tr>
<td>Svenson, Erik</td>
<td>Professor, Medicine and Physiology, University of Washington, Seattle, United States</td>
</tr>
<tr>
<td>Walporth, Beat</td>
<td>Director, Cardiovascular Research, Service of Cardiovascular Surgery, Geneva University Hospital, Switzerland</td>
</tr>
<tr>
<td>West, John</td>
<td>Professor, Medicine and Physiology, University of California San Diego, United States</td>
</tr>
<tr>
<td>Zaffri, Ken</td>
<td>Associate Medical Director, Himalayan Rescue Association, Nepal; Vice President, International Commission for Mountain Emergency Medicine (ICAR MEDCOM); Clinical Associate Professor, Division of Emergency Medicine, Stanford University Medical Center; Alaska Native Medical Center, United States</td>
</tr>
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3.2 Invited speakers

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Position</th>
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<tbody>
<tr>
<td>Fischer, Rainald</td>
<td>President, BEMED, Germany</td>
</tr>
<tr>
<td>Maggiorini, Marco</td>
<td>Vice-Head, EURAC Institute of Mountain Emergency Medicine, European Academy of Bozen/Bolzano, Italy</td>
</tr>
<tr>
<td>Sienkiewicz, Markus</td>
<td>Professor of Physiology, Medical University of Innsbruck, Austria</td>
</tr>
<tr>
<td>Zafren, Ken</td>
<td>Associate Medical Director, Himalayan Rescue Association, Nepal; Vice President, International Commission for Mountain Emergency Medicine (ICAR MEDCOM); Clinical Associate Professor, Division of Emergency Medicine, Stanford University Medical Center; Alaska Native Medical Center, United States</td>
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</tr>
</tbody>
</table>

Scientific programme

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auerbach, Paul</td>
<td>Division of Emergency Medicine, Dept. of Surgery, Stanford Medical School, United States</td>
</tr>
<tr>
<td>Bailie, Kenneth</td>
<td>University of Edinburgh, United Kingdom</td>
</tr>
<tr>
<td>Balestra, Costantino</td>
<td>Professor of Physiology, Haute Ecole Paul-Henri Speck; Head, Environmental, Occupational &amp; Aging Physiology Laboratory (Integrative Physiology); VP, Research &amp; Education DAN Europe, Belgium</td>
</tr>
<tr>
<td>Bartsch, Peter</td>
<td>Professor emeritus, University of Heidelberg, Germany</td>
</tr>
<tr>
<td>Baumgartner, Ralf</td>
<td>Neurozentrum Hirzlstein, Switzerland</td>
</tr>
<tr>
<td>Berger, David</td>
<td>Innsbruck, Switzerland</td>
</tr>
<tr>
<td>Berghold, Franz</td>
<td>Professor, Dept. of Sport Science, University of Salzburg, Austria</td>
</tr>
<tr>
<td>Biroli, Marco</td>
<td>Regional Hospital of Bolzano, Italy; CNSAS - Italian Mountain Rescue Service, Italy</td>
</tr>
<tr>
<td>Biedens, Joost</td>
<td>VU University Medical Center, Netherlands</td>
</tr>
<tr>
<td>Binier, Gerald</td>
<td>President, Alpine Rescue Foundation, Switzerland</td>
</tr>
<tr>
<td>Blanche, Marc</td>
<td>Grenoble University Hospital and ANSM, France; ICAR MEDCOM</td>
</tr>
<tr>
<td>Bonisante, Francesco</td>
<td>Regional Hospital of Bolzano, Italy; CNSAS - Italian Mountain Rescue Service, Italy</td>
</tr>
<tr>
<td>Bosco, Martina M</td>
<td>Visita Diagnostics Eye Clinic, Switzerland</td>
</tr>
<tr>
<td>Bousser, Robert</td>
<td>Professor, Adastrand Laboratory, The Swedish School of Sport and Health Sciences, Sweden</td>
</tr>
<tr>
<td>Brodman-Maeder, Monika</td>
<td>Dept. of Emergency Medicine, University Hospital Bern, Switzerland; SGDM</td>
</tr>
<tr>
<td>Brown, Douglas</td>
<td>University of British Columbia teaching hospital; Royal Columbian Hospital, Canada</td>
</tr>
<tr>
<td>Burscher, Martin</td>
<td>Institute of Sport Science, Medical Section, University of Innsbruck, Austria</td>
</tr>
<tr>
<td>Cauchy, Emmanuel</td>
<td>Founder and Executive Chief, IFREMMONT (Mountain Medicine Institute for Training and Research), France</td>
</tr>
<tr>
<td>Chico, Andrew</td>
<td>Assistant Professor, Dept. of Health and Exercise Science, Food Science and Human Nutrition, and Biomedical Sciences; Director, Integrative Cardiac Biology Laboratory, Colorado State University, United States</td>
</tr>
<tr>
<td>Cipolotti, Giovanni</td>
<td>SUEM 118 Refufo, Italy; CNSAS - Italian Mountain Rescue Service, Italy</td>
</tr>
<tr>
<td>Cogo, Annalisa</td>
<td>Associate Professor, Respiratory Medicine, University of Ferrara, Italy; Director, Biomedical Sport Study Centre, University of Ferrara, Italy</td>
</tr>
<tr>
<td>Colonna, Günther</td>
<td>Head, EURAC education, European Academy of Bozen/Bolzano, Italy</td>
</tr>
<tr>
<td>Coppo, Lorenzo</td>
<td>Neurology Dept., University Hospital A. Avogadro, Italy</td>
</tr>
<tr>
<td>Dehnhert, Christoph</td>
<td>Medbase Sports Medical Center Zurich, Switzerland</td>
</tr>
<tr>
<td>Dembeck, Axel</td>
<td>Spital fmi Interlaken, Switzerland</td>
</tr>
<tr>
<td>Diocia, Nico</td>
<td>UAA Belgrade, Serbia and Montenegro</td>
</tr>
<tr>
<td>Durrer, Bruno</td>
<td>ICAR MEDCOM, UAA MEDCOM, Switzerland</td>
</tr>
<tr>
<td>Ellerton, John</td>
<td>Vice President, ICAR MEDCOM; UAA MEDCOM, United Kingdom</td>
</tr>
<tr>
<td>Fischier, Rainald</td>
<td>President, BEMED, Germany</td>
</tr>
<tr>
<td>Name</td>
<td>Institution</td>
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<tr>
<td>FREER, Luanne</td>
<td>Associate medical director, Medcor®, United States; Himalayan Rescue Association</td>
</tr>
<tr>
<td>GARGANI, Luna</td>
<td>Institute of Clinical Physiology, Italian National Council of Research, Italy</td>
</tr>
<tr>
<td>GENSER, Manuel</td>
<td>Genexen, Switzerland</td>
</tr>
<tr>
<td>GIBERTI-RAMIREZ, Edward</td>
<td>University College London Centre of Altitude, Space and Extreme Environment (CASE) Medicine, United Kingdom</td>
</tr>
<tr>
<td>GRÄSSNER, Jan-Thorsten</td>
<td>Universitätsklinikum Scherz-Wolfsen, Campus Kiel, Klinik für Anästhesiologie und Operative Intensivmedizin, Germany</td>
</tr>
<tr>
<td>GRISSOM, Colin</td>
<td>Shock Trauma ICU at Intermountain Medical Center, University of Utah School of Medicine, United States</td>
</tr>
<tr>
<td>GRIBBER, Elisabeth</td>
<td>Dept. of Anaesthesiology and Critical Care Medicine, Hospital of Bruneck, Italy</td>
</tr>
<tr>
<td>HARRIS, Stuart</td>
<td>Massachusetts General Hospital; Harvard Medical School, United States; Chief, Division of Wilderness Medicine, Fellowship Director, MGH Wilderness Medicine Fellowship; Dept. of Emergency Medicine, Massachusetts General Hospital; Assistant Professor, Surgery, Harvard Medical School, United States</td>
</tr>
<tr>
<td>HEFTI, Ura</td>
<td>Head, Swiss Sport Clinic Bern, Switzerland; SGGM, UAA MEDCOM</td>
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<tr>
<td>HENRIKSSON, Otto</td>
<td>Dept. of Surgery and Perioperative Sciences, Umeå University, Sweden</td>
</tr>
<tr>
<td>HILLEBRANDT, David</td>
<td>President, UAA MEDCOM; vice president ISMM; Hon Medical Advisor to the British Mountaineering Council and the British Mountain Guides Association, United Kingdom</td>
</tr>
<tr>
<td>HOIGNE, Philipp</td>
<td>President, Schweizerische Gesellschaft für Gebirgsmedizin - SGGM, Switzerland</td>
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<tr>
<td>HOLZER, Michael</td>
<td>Dept. of Emergency Medicine, Medical University of Vienna, Austria</td>
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<tr>
<td>HÖLZL, Markus</td>
<td>Berghuettngutsitzen im Alpenverein Südtirol (BRM im AVS), Italy</td>
</tr>
<tr>
<td>HORNER, Brian</td>
<td>LTR Training Systems, United States</td>
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<tr>
<td>JAEGGER-WANSCHEIM, Michael</td>
<td>Clinical Director of Cardiotoracic ICU 4141, Dept. of Cardiotoracic Anesthesiology 4142, The Heart Center, Rigshospitalet, Denmark</td>
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<tr>
<td>JEAN, Dominique</td>
<td>Centre for Prenatal Diagnosis, CHU Grenoble, France; ISMM, WMS, UAA MEDCOM, ISTM</td>
</tr>
<tr>
<td>JELK, Bruno</td>
<td>Air Zermatt, Switzerland; KWO (Kantonale Walliser Reitungsorganisation), Switzerland</td>
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<tr>
<td>KEBL, Thorsten</td>
<td>Head, Dept. of Anesthesiology, Helmut-G.-Walther-Klinik Lichterfelds, Germany</td>
</tr>
<tr>
<td>KEYES, Linda</td>
<td>Assistant Clinical Professor, University of Colorado, United States; Associate Editor, Wilderness and Environmental Medicine</td>
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<tr>
<td>KOLEPA, Pranawa</td>
<td>Mountain Medicine Society of Nepal, Nepal</td>
</tr>
<tr>
<td>KOTTMANN, Alexandre</td>
<td>Rega, Swiss Air Ambulance, Switzerland; SGGM; ICAR MEDCOM, Switzerland</td>
</tr>
<tr>
<td>KREMLEV, Susi</td>
<td>PMH Pediatrics, Sports Medicine, Institute of Social and Preventive Medicine, Switzerland</td>
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<tr>
<td>KRIUSE, Christoph</td>
<td>Unfallklinik Murnau, Germany</td>
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<tr>
<td>KULKARNI, Amol</td>
<td>Consultant Oral &amp; Maxillofacial Surgeon WALS, WEMT; Savannah Medics, Tanzania</td>
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<tr>
<td>KÖPPER, Thomas</td>
<td>Occupational Medicine, Sports Medicine, Mountain Medicine (UAA), Travel Medicine (EFZ), Inst. of Occupational &amp; Social Medicine, Aschen Technical University, Germany</td>
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<tr>
<td>LAVIDER, Paolo</td>
<td>Dept. of Biology, University of Padova, Italy</td>
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<tr>
<td>LEÓN-VELARDOE, Fabiola</td>
<td>Rector, Professor of Physiology, Dept. of Biological and Physiological Sciences, Universidad Peruana Cayetano Heredia, Peru</td>
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<tr>
<td>LINTNER, Lorenzo</td>
<td>White Cross rescue organization South Tyrol, Italy</td>
</tr>
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<td>LOCHNER, Piergiorgo</td>
<td>Neurology Dept., Tappeiner Hospital Merano, Italy</td>
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<tr>
<td>LOHANI, Ashish</td>
<td>Mountain Medicine Society of Nepal, Nepal</td>
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<tr>
<td>LUNDGREN, Peter</td>
<td>Dept. of Surgery and Perioperative Sciences, Umeå University, Sweden</td>
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<tr>
<td>LUKS, Andrew</td>
<td>Division of Pulmonary and Critical Care Medicine, University of Washington, United States</td>
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<tr>
<td>MACNINNIS, Martin</td>
<td>School of Kinesiology, University of British Columbia, Canada</td>
</tr>
<tr>
<td>MAIR, Peter</td>
<td>Dept. of Anaesthesia and Critical Care Medicine, Innsbruck Medical University, Austria</td>
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<tr>
<td>MALACRIDA, Sandro</td>
<td>EURAC Institute of Mountain Emergency Medicine, European Academy of Bozen/Bolzano, Italy</td>
</tr>
<tr>
<td>MANGANELLI, Gigliola</td>
<td>CNSAS - Italian Mountain Rescue Service, Italy</td>
</tr>
<tr>
<td>MARTIN, Daniel</td>
<td>Honorary Consultant, Anesthesia and Critical Care, Royal Free London NHS Trust; Senior Lecturer, Anaesthesia and Critical Care, Division of Surgery, University College London; Director, UCL Centre for Altitude, Space and Extreme Environment Medicine; Co-Director, Caudwell Xtreme Everest Hypoxia Research Consortium, United Kingdom</td>
</tr>
<tr>
<td>MCINTOSH, Scott</td>
<td>Associate Professor, Division of Emergency Medicine; Director, EMS-Wilderness Medicine Fellowship; Medical Director, Summit County EMS; Associate Medical Director, AirMed; United States</td>
</tr>
<tr>
<td>MEDZ, Tobias</td>
<td>Dept. of Intensive Care Medicine, University Hospital (Inselspital) and University of Bern, Switzerland</td>
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<tr>
<td>MESSNER, Hubert</td>
<td>Neonatal and Paediatric ICU, Hospital of Bolzano, Italy</td>
</tr>
<tr>
<td>MILANI, Mario</td>
<td>CNSAS - Italian Mountain Rescue Service, Italy; ICAR MEDCOM, Italy</td>
</tr>
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<td>MISEROCCHI, Giuseppe</td>
<td>Dept. of Experimental Medicine, University of Milano-Bicocca, Italy</td>
</tr>
<tr>
<td>MOENS, Didier</td>
<td>Medical Director, Centre Médical Héliport de Bras sur Lienne; Head, Clinique Urgences-SAMU, France; UAA MEDCOM</td>
</tr>
<tr>
<td>MONSERGUES, Koen</td>
<td>Antwerp University Hospital, Belgium</td>
</tr>
<tr>
<td>MORRISON, Audrey</td>
<td>UAA MEDCOM, United Kingdom</td>
</tr>
<tr>
<td>MUCKENTHALER, Marthina</td>
<td>Dept. of Pediatric Oncology, Hematology and Immunology, University of Heidelberg, Germany</td>
</tr>
<tr>
<td>MURRAY, Andrew</td>
<td>University of Cambridge, United Kingdom</td>
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<tr>
<td>O’CONNOR, Rory D</td>
<td>Admiral de Ruyter Hospital, Goes, Netherlands</td>
</tr>
<tr>
<td>PAAL, Peter</td>
<td>Dept. of Anaesthesiology and Critical Care Medicine, Innsbruck Medical University, Austria</td>
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<tr>
<td>PANARITI, Alice</td>
<td>University of Padova, Italy</td>
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<tr>
<td>PICHLER HEFTI, Jacqueline</td>
<td>Dept. of Pneumology, Insepsipital Bern, Switzerland</td>
</tr>
<tr>
<td>PIPIS, Monica</td>
<td>Expedition doctor, Abelpeng, expeditions, Spain</td>
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<tr>
<td>PONCHA, Andrea</td>
<td>University of Padova, Italy</td>
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<td>PRATALLI, Lorenza</td>
<td>Institute of Clinical Physiology, Italian National Council of Research, Italy</td>
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<td>PROCTOR, Emily</td>
<td>EURAC Institute of Mountain Emergency Medicine, European Academy of Bozen/Bolzano, Italy</td>
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<tr>
<td>PUTZER, Gabriel</td>
<td>Dept. of Anaesthesiology and Critical Care Medicine, Innsbruck Medical University, Austria</td>
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<td>RAMMLMAIR, Georg</td>
<td>White Cross rescue organization South Tyrol, Italy</td>
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<tr>
<td>REISTEN, Oliver</td>
<td>Air Zermatt, Switzerland</td>
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Scientific programme

4 Scientific programme

4.1 Full programme

SUNDAY 25 MAY 2014 REGISTRATION DAY

Location: EURAC RESEARCH

8:30-17:30 1st Pre-conference faculty development day for DIMM course directors.

14:00-18:00 Registration

20:00-22:00 Welcome speech

E. Bruml, H. Brugger, W. Stuflesser, M. Stocker

Opening key lecture

High altitude medicine from the 19th to 21st century

P. Bärtsch (Germany)

Welcome aperitif

PUBLIC EVENTS

EGARTER WIL, Eduard President of the scientific council, Claudiana – College of Health Care Professions, Italy

EISENDLE, Hanspeter Mountain guide, Italy

MALIK, Fredmund Expert for Complexity Management, Governance and Leadership, Switzerland

MESSNER, Reinhold Mountaineer, adventurer, explorer and author, Italy

OEZ, Oswald Mountaineer and physician, Switzerland

ZINK, Albert Head of the EURAC Institute for Mummies and the Iceman, Italy

RINALDI, Adriano CAI medical commission; Dept. of Anesthesia and Intensive Care, University of Trieste, Italy

ROACH, Rob University of Colorado, United States

RODWAY, George University of Nevada, United States

SANTINI, Antonella CNSAS - Italian Mountain Rescue Service, Italy

SCHAEFFERT, Wolfgang Former President, BEXMED; Committee, ÖGHAM; Transair mountain emergency doctor; “Bergwacht” (Bavarian mountain rescue), Germany

SCHNEIDER, Michel Institute and Out-patient Clinic of Occupational Medicine, University Hospital Aachen, Germany

SCHÖFFL, Volker Dept. of Sportmedicine - Sport Orthopedics, Germany

SCHNEIDER, Andreas Umklinik Bialgrinst, Switzerland

SCHNEIDER, Jürg WSL Institute for Snow and Avalanche Research SLF, Switzerland

SHERPA, Lakhphuti Executive Director, Mountain Academy Nepal, Nepal

SCHWEIZER, Andreas Dept. of Sportsmedicine - Sport Orthopedics, Germany

SCHWEIZER, Jürg Schneeberger Hochgebirgsstiftung, Vergleichende Medizin der Bergwachta, Switzerland

SCHWEIZER, Jürg University of Bern, Switzerland

SCHWEIZER, Jürg WSL Institute for Snow and Avalanche Research SLF, Switzerland

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Monday 26 May 2014

High Altitude Basic Research

Location: Auditorium (Main Session)

09:00-10:30

Session A - Genetic adaptation to high altitude: species and population differences - C Beall / J Storz

10:00-12:30

Session B - Science update - Molecular biology of hypoxia - J West

12:30-14:00 Lunch Break & Poster Viewing Session (Topic 1 and 3, See Page 35)

13:00-14:30

Session C - Mitochondria - Key organelle for bioenergetics in hypoxia and cold? - E Gnaiger / R Boushel

14:30-16:00

Session D - Press-conc: High vs. normobaric hypoxia and the influence on exercise performance - M Bartelscher / R Rauch

16:00-17:30

Session E - Future issues - Ultrasonic and NIRS - New tools for research at high altitude - M Wilce / G Striappoz

Conference Hall (Parallel Session)

Special issues - Markers at high altitude - R Go / J West

20 Strategies for improving work performance at high altitude - J West (United Kingdom)

21 Associations between homologous concentration and exercise capacity in Tibetan highlanders - C Wu (China)

22 Effects of chronic intermittent hypoxia on health status and performance of Chilean miners - JF Richard (Chile)

23 010-O: Data establishes safety and health standards for intermittent occupational exposure to 3900-5000 meters altitude - D Arjona

24 101-O: Female and occupational screening of miners at high altitude gold mine (4000 meters) effectively predicts sick people from employment - D Jordan, R Boushel, R Badinger, A Murray

25 003-O: Increase in hemoglobin values through the years in Peruvian highland workers - C Mejia, D Barchiesi, C Cruzalegui, V Gómez, R Gomero, I Arriola

Coffee Break

Meeting the Expert - Practical medical problems at base camp - U Hoigné / L Freer

Introduction - U Hoigné (Switzerland)

Practical medical problems at base camp - U Hoigné / L Freer (United States)

12 Mount Everest / L Freer (United States)

12 Pilgrims expedition / P Koirala (Nepal)

12 Hinking Himal Research Expedition 2013 / D Berger (Switzerland)

10 A commercial expedition / J Pichler (Switzerland)

8 A privately organized expedition / U Hoigné (Switzerland)

Controversia in expediton medicine - U Hoigné (Switzerland)

8 Thrombolytic medication on an expedition is a must - U Hoigné (Switzerland)

8 The hyperbaric chamber is part of the expedition medical kit - U Hoigné (Switzerland)

8 Decompression for summit day: a good idea? - U Hoigné (Switzerland)

8 A privately organized expedition / U Hoigné (Switzerland)

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Meeting the Expert - Prevention and treatment of AMS, HAPE, HACE - M Piris / L Freer

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TUESDAY 27 MAY 2014
HIGH ALTITUDE FOR THE CLINICIAN AND EXPEDITION DOCTOR

Scientific programme

LOCATION

3:00-10:30
SESSION A – Science update – Acute altitude illnesses (AMS, HACE, HAPE) – B Basnyat / M Maggiorini

15 Epidemiological and clinical aspects of high altitude illness

15 047-D The AL PI project: Altitude & Pathology in India. AL PI: Italian Survey on High Altitude Illnesses on behalf of Club Alpino Italiano (CAI) and the Italian Society of Mountain Medicine (SIMA) – F Marchion, F Piccin, D Nollet, M Carera, L Fortinodra, L Bastien, M Berthouly, G Miserocchi, G Gantier, L Poletti

15 053-D Impact of study design on the incidence of acute mountain sickness. Systematic review – B Wander, M Pfärl, C Lepere, M Berthouly, BP Ventur, R Karger

15 Circulatory hemodynamic aspects of high altitude illness – M Maggiorini (Switzerland)

15 044-D Central hemodynamic characteristics of acute mountain sickness upon acute high-altitude exposure at 3700 m in young Chinese men – L Huang

15 052-D Observational study of radiological features of HAPE cases and validation of new radiological severity scoring – U Koehler, L Acker, G Dodson, B Weisz, M Simard, I Dufour, V Neil

5 Discussion

10:20–11:00 COFFEE BREAK

11:00–12:30
SESSION B – Science update – Chronic mountain sickness – RL Ge / F León Velarde

20 Recent advances of pathophysiological studies on chronic mountain sickness in China – RL Ge / China

20 045-D New risk factors for CMS? – F León Velarde (Peru)

20 046-D Differential gene expression profile and biological features of bone marrow mononuclear stem cells in chronic mountain sickness – JU Li, F Li, BU Li, D Wang, D Chen, D Fan, Y Fan

20 050-D Study on brain structure and cognitive function in patients with chronic mountain sickness in 3T MRI – M Bos, M He, RL Ge

20 054-D Major components level of the ACE-Ang-AT1 axis in local hematopoietic bone marrow of patients with chronic mountain sickness – LLA Li, ZLL Su, Y Li, M Yang, H Wang, M Xia, Y Chen, RL Ge

5 Discussion

12:30–14:00 LUNCH BREAK & POSTER VIEWING SESSION (TOPIC 2 AND 6, SEE PAGE 33)

14:00–15:30
SESSION C – Women and children at altitude – RL Ge / F León Velarde

25 Exercise and travel of high altitude during pregnancy – L Rosenfeld, Online Studies

25 Children going to the mountains – D Jean (France)

25 042-D High-altitude illness in young co-parents matter? – S Kriemler (Switzerland)

25 140-D Being ventilation to get almost gender differences in ventilatory parameters at high altitude – J Sue

25 150-D Acute mountain sickness (AMS) among high altitude Nepalese pilgrim children – A five year study – L Xu, P Xu, Q Li, C Huang, N He, L Gao, B Basnyat, M Maggiorini, B Basnyat

5 Discussion

15:30–16:00 COFFEE BREAK

16:00–17:30
SESSION D – Press-con: Is physiologic testing helpful for predicting the risk of acute high altitude illnesses? – P Bärtsch / JP Richalet

20 Pro: Hypoxic exercise test is useful for the detection of subjects at high risk for severe high altitude illness – JRichalet (France)

20 Con: Physiologic testing is not helpful for predicting the risk of acute high altitude illness – PBärtsch (Switzerland)

20 041-D Abnormal pulmonary vascular reactivity alone is not sufficient to induce high altitude pulmonary syndrome – C Delibes (Switzerland)


20 181-D Maintaining a good ventilatory efficiency in the transition between normoxia (N) and hypoxia (H) at rest predicts a better oxygenation (SpO2) during exercise in hypoxia – G Papi Renzetti, G Gardin, G Manderli, B Ceulier, A Dago

5 Discussion

17:00–18:30 SESSION E – Science update – Chronic mountain sickness – RL Ge / F León Velarde

20 Recent advances of pathophysiological studies on chronic mountain sickness in China – RL Ge / China

20 045-D New risk factors for CMS? – F León Velarde (Peru)

20 046-D Differential gene expression profile and biological features of bone marrow mononuclear stem cells in chronic mountain sickness – JU Li, F Li, BU Li, D Wang, D Chen, D Fan, Y Fan

20 050-D Study on brain structure and cognitive function in patients with chronic mountain sickness in 3T MRI – M Bos, M He, RL Ge

20 054-D Major components level of the ACE-Ang-AT1 axis in local hematopoietic bone marrow of patients with chronic mountain sickness – LLA Li, ZLL Su, Y Li, M Yang, H Wang, M Xia, Y Chen, RL Ge

5 Discussion

18:30–19:30 SESSION F – Science update – Acute altitude illnesses (AMS, HACE, HAPE) – B Basnyat / M Maggiorini

15 Epidemiological and clinical aspects of high altitude illness

15 047-D The AL PI project: Altitude & Pathology in India. AL PI: Italian Survey on High Altitude Illnesses on behalf of Club Alpino Italiano (CAI) and the Italian Society of Mountain Medicine (SIMA) – F Marchion, F Piccin, D Nollet, M Carera, L Fortinodra, L Bastien, M Berthouly, G Miserocchi, G Gantier, L Poletti

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5 Discussion

19:30–21:00 POSTER VIEWING SESSION (TOPIC 2 AND 6, SEE PAGE 33)

CONFERENCE HALL (PARALLEL SESSION)

Special issues

Xtreme Everest 2 – D Martí

15 Xtreme Everest 2 – D Martí (United Kingdom)

15 033-D Microenvironment at high altitude – E Gillet-Akwa (United Kingdom)

15 032-D Mitochondrial metabolism at high altitude – A Moro (United Kingdom)

Resanowt 2 project: – G Miserocchi (Italy)

15 Individual differences in the adaptation of the air-blown barrier when an increase in oxygen diffusion/transport is requested – G Miserocchi (Italy)

15 Human genomics and hypoxia adaptive response – P Lacorre (Italy) / S Balchin (England)

15 Regional differences in long matrix remodelling to hypoxia – A P Zhang (Italy)

5 Discussion

SEMINAR ROOM (PARALLEL SESSION)

Meet the expert - Requirements for expedition doctors—what to bring and what to leave – F Bergoth / R Fischer

20 Do they really need an expedition doctor? – F Bergoth (Australia)

20 From the airport to basecamp – R Fischer (Germany)

20 Up to the summit – W Schaffert (Germany)

30 Discussion

LUNCH BREAK & POSTER VIEWING SESSION (TOPIC 2 AND 6, SEE PAGE 33)

Meet the expert - Prevention and treatment of non-altitude sickness related problems – B Basnyat / X Zeller

15 Problems at altitude other than AMS/MACE and HAPE – X Zeller (United States)

15 Neurologic problems at altitude other than AMS/MACE – B Basnyat (Nepal)

15 170-D Medical data from Aconcagua Provincial Park’s Medical Service, 2011-2012 season – S Denke, M Stravins, F Bergoth, F Balotta

45 Interactive case presentations

COFFEE BREAK

Future issues – Utah ski style and GRADE –models for establishing high altitude recommendations? – M Maggiorini

20 How to use GRADE for guideline development – M Maggiorini (Switzerland)

20 Data collection in emergency medicine (PTSTERN) – P Balotta (Germany)

20 Assessing high altitude illness over the last 25 years: can we do better? – B Basnyat (Nepal)

20 Monitoring human body response under extreme hypoxic conditions – M Maggiorini (Switzerland)


15 Discussion

Applied Workshop – High-resolution respirometry and mitochondrial function in hypoxia: overview, dome experiment and discussion – E Gnaiger

A three-part applied workshop including an overview of the measurement of mitochondrial function in the lab and the field and its scopes and limitations, a dome experiment on cell respiration and ROS production under normoxia and hyperoxia, and a discussion of mitochondria and intercellular oxygen levels and what it means to normoxia.

Location: Seminar II

Pre-registration is required at the info-desk.
WEDNESDAY 28 MAY 2014
HIGH ALTITUDE FOR THE CLINICIAN AND EXPEDITION DOCTOR

SESSION A - Pre-existing cardiac and metabolic diseases at high altitude - A Lake / A Luks

- 11:00-12:30
  - Pre-existing cardiac and metabolic diseases at high altitude - A Luks (United States)
  - Going high with respiratory diseases - A Lake (United States)
  - Pre-existing pulmonary, immunologic and neurologic diseases at high altitude - E Swenson / A Cogo

- 14:00-15:30
  - Pre-existing pulmonary, immunologic and neurologic diseases at high altitude - E Swenson / A Cogo
  - Going high with immunologic diseases - E Swenson (United States)
  - Going high with respiratory diseases - A Lake (United States)

SESSION B - Pre-existing cardiac and metabolic diseases at high altitude - A Luks / A Luks

- 16:00-17:30
  - Pre-existing cardiac and metabolic diseases at high altitude - A Luks / A Luks
  - Going high with immunologic diseases - E Swenson (United States)
  - Going high with respiratory diseases - A Lake (United States)

SESSION C - Mountain medicine diploma and education sessions

- 09:00-10:30
  - U.S.A./I.R.A./S.M.N. Diploma of Mountain Medicine and other educational initiatives - D. Hillebrandt (U.S.A.) / B. Bärtsch (Germany) / K. Oshiro (Japan)
  - Transalp Ausbildung für Bergrettungsärzte (Bavarian, Austrian and South Tyrolean mountain rescue) - O. Reisten (Switzerland)
  - Educational activities of the Italian Society of Mountain Medicine - G. Parati (Italy)
  - Educational activities of the Italian Society of Mountain Medicine - G. Parati (Italy)
  - Educational activities of the Asociaacion Andina de Medicina para la Altura-AAMpA with specific reference to Aconcagua - S. Donato (Argentina)

- 12:30-14:00
  - Lunch break

SESSION D - Pre-existing medications at high altitude—moving on from right and wrong to disclosure - J. Ellerton

- 15:00-16:30
  - Pre-existing medications at high altitude—moving on from right and wrong to disclosure - J. Ellerton
  - Introduction - J. Ellerton (United Kingdom)
  - Panel discussion - J. Ellerton (United Kingdom)
**THURSDAY 29 MAY 2014  FOCUS TOPIC: RESCUE IN NEPAL**

**AUDITORIUM (MAIN SESSION)**

**14:00-15:30**

**Special issues - Rescue initiatives in Nepal - B Basnyat / I Tomazin**

- Helicopter-based training and rescue in Nepal
  - G Biner (Switzerland)
- 272-O From Sagarmatha to Bung training helicopter rescues, developing a rescue chain in the Khumbu region and improving health in remote areas of Nepal
  - M Brodmann Maeder, B Basnyat, G Biner
- 267-O Micronutrient Medicine Society of Nepal actively involved in making the Nepalese Himalayas safer
  - M Neupane, GB Thapa, P Koirala, M Pun, B Basnyat
- 259-O Professional pre-hospital care in Nepal - The Nepal Ambulance Service
  - M Doe, N Wilson, E Stirling, R Pariseau, E Coleman, C White, C Stirling
- 267-O Nepal Mountain Rescue Development Project (EURAC/BRD/HRA)
  - G Strapazzon (Italy)

**15:00-15:30**

**Discussion**

**15:30-16:00 COFFEE BREAK**

**16:00-17:30 Panel discussion - Nepal mountain rescue development projects - G Cologna**

- An insider account of the Everest tragedy 2014
  - P Koirala (Nepal) / S Stokes (United Kingdom)
- Perspective on future developments in mountain rescue in Nepal
  - GB Thapa (Nepal)
- Panel discussion
  - B Basnyat (Nepal), G Biner (Switzerland), M Brodmann (Switzerland), H Brugger (Italy), F Elsensohn (Austria), P Koirala (Nepal), T Preindl (Italy), L Sherpa (Nepal), GB Thapa (Nepal)

**CONFERENCE HALL (PARALLEL SESSION)**

**9:00-17:30 MEDICAL WORKSHOPS**

**Location:** Free University of Bozen/Bolzano

(see page 35)

**7:30-17:30 GUIDED EXCURSIONS**

(see page 38)

**14:00-15:30**

**Special issues - Research initiatives in Nepal - A Ponchia / A Lohani**

- Educational and research project to increase awareness of chronic obstructive pulmonary disease (COPD) in Nepal and investigate the respiratory health in mountain dwellers exposed to indoor pollution
  - A Cogo, L Pratali, Italian-Nepalese Research Group
- Science in thin air: Himlung Himal Research Expedition 2013 - a study of human adaptation to hypoxia
  - J Pichler Hefti, P Koirala, J Merz, U Hefti
- Exposure to indoor air pollution induces endothelial dysfunction in Nepalese high-altitude dwellers
  - L Pratali, A Cogo, Italian-Nepalese Research Group
- Role of low dose Acetazolamide (125 mg bid) in prevention of acute mountain sickness in pilgrims ascending rapidly: A prospective double blind placebo controlled randomized trial
  - M Pun, M Neupane, A Lohani, GB Thapa, S Yadav, PS Holck, B Basnyat
- A genome-wide association study of acute mountain sickness susceptibility in the Nepalese Himalaya
  - M MacInnis, N Widmer, U Timalsina, A Subedi, A Siwakoti, BP Pandit, M Freeman, J Rupert

**15:00-15:30**

**Discussion**

**15:30-16:00**

**COFFEE BREAK**

**16:00-17:30**

**Panel discussion**

**Future issues (panel discussion) - Revision of the Lake Louise Score - P Hackett / JK Baillie**

- Acute mountain sickness - the need for a data-driven definition
  - J A Hackett (United Kingdom)
- Laboratory- and field-based evidence to revise the current definition of acute mountain sickness
  - M MacInnis (Canada)
- Acute mountain sickness - a different scoring system to assess acute mountain sickness in the Italian Survey (Altitude & Pathology in Italy, ALP): Psychometric properties
  - L Barbieri, L Forte, P Marchetti, G Foppicus, O Nekid, M Canova, M Bartaasogh, G Morenico, G Garbini, S Misiani, L Preindl
- Acute mountain sickness - the laboratory experience
  - P Hackett (United Kingdom)

**15:30-16:00**

**Discussion**

**16:00-17:30**

**Panel discussion**

**Panel discussion**

- An insider account of the Everest tragedy 2014
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MOUNTAIN EMERGENCY MEDICINE

IV. INTERNATIONAL SYMPOSIUM ON HYPOTHERMIA

TRAUMA, AIRWAY & CIRCULATION
FRIDAY 30 MAY 2014
IV. INTERNATIONAL SYMPOSIUM ON HYPOTHERMIA

SESSION A - Clinical update - Accidental hypothermia—prehospital management - A Zahari / G. Strapazzon
- 10 Update on the physiology and pathophysiology of accidental hypothermia
- 11 Field assessment and core temperature measurement in cold patients—a hot issue
- 12 Field management of hypothermic patients without cardiac arrest
- 13 Field management of hypothermic patients with cardiac arrest
- 14 Protection against cold—from simulation to practise

SESSION B - Clinical update - Accidental hypothermia—in-hospital management - B. Walpoth / B. Brown
- 20 Extracorporeal rewarming of deep accidental hypothermia victims
- 21 Outcomes of accidental hypothermia with circulatory arrest in 7 young victims. Experience from the Danish Pratique Pand Sale heart beating accident
- 22 Hypothermia (Switzerland)

SESSION C - Avalanche accidents - G. Strapazzon
- 23 Deep accidental hypothermia with core temperature below 24°C
- 24 Deep accidental hypothermia and consequences on rescue and resuscitation
- 25 Deep accidental hypothermia in a disaster setting
- 26 From a Lazarus case-report to an immersion hypothermia protocol

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SATURDAY 31 MAY 2014: TRAUMA, AIRWAY & CIRCULATION

LOCATION

08:00-10:30

SESSION A - Clinical update - Alpine trauma treatment - P. Ellsasser / E. Kaufl
- 20 Multiple trauma in mountain rescue: Treatment, rescue strategy and limitations
  P. Ellsasser (Austria)
- 15 271-P Evaluation of pain management in mountain rescue: a prospective observational study of 40 patients managed by Physician Staffed Helicopter Emergency Medical Service (P-HEMS) during mountain-rescue missions
  M. Blancher, E. Droste, J. Favier, F. Rocourt, V. Briot, V. Daniel
- 15 244-D Can emergency physicians correctly assess the pattern and severity of injury at the scene in Alpine multitrauma victims?
  M. Ströhle, G. Mancinelli, G. Strapazzon, P. Briot, P. Paul
- 15 256-T Two year prospective observational study on mountain rescuer medical events and trauma: “Mind the head”
  N. Dodda, J. Christley, J. Dyhus
- 20 Advanced airway management in mountains
  J. Ellerton (United Kingdom)

10:00-12:30

SESSION B - Clinical update - Basic and advanced airway management - 11:00-11:30 COFFEE BREAK
- 15 241-D Basic Life Support trained nurses ventilate more efficiently with a facemask or laryngeal tube Succinylcholine—a prospective, randomized clinical trial
  G. Strätling, R. Chorianopoulos, G. Strapazzon, E. Droste, P. Briot, P. Paul
- 30 Non-invasive ventilation and basic life support ventilation in mountains
  P. Paul (Austria)
- 30 Advanced airway management in mountains
  J. Tomazin (Slovenia)

12:30-14:00

LUNCH BREAK

14:00-15:30

SESSION C - Clinical update - Circulation management and cardiac arrest in mountain and remote areas - J. Ellerton / M. Milani
- 20 Shock update
  P. Paul (Austria)
- 30 Termination of CPR including traumatic cardiac arrest
  M. Milani (Italy)
- 30 AED in remote areas—a case series from South Tyrol
  G. Mancinelli (Italy)
- 10 283-T Cardiac arrest in mountain setting (above 1800m): two years HEMS experience review in Aosta Valley, Italy
  G. Estréine, G. Favier, G. Scolozzo, G. Strätling, F. Rocourt, V. Briot

15:30-16:30

SESSION D - Clinical update - Basic and advanced airway management - P. Paul / J. Tomazin
- 15 245-D Basic Life Support trained nurses ventilate more efficiently with a facemask or laryngeal tube Succinylcholine—a prospective, randomized clinical trial
  G. Chorianopoulos, G. Strapazzon, E. Droste, P. Briot, P. Paul
- 30 Non-invasive ventilation and basic life support ventilation in mountains
  P. Paul (Austria)
- 30 Advanced airway management in mountains
  J. Tomazin (Slovenia)

16:00-17:00

CONFERENCE HALL (PARALLEL SESSION)

Special issues

Shoulder dislocation and thoracotomy - E. Okis / A. Richard
- 15 Traumatic pneumothorax—evaluative study
  A. Richard (Italy)
- 15 When and how to reduce a shoulder dislocation in the field
  C. Okis (Germany)
- 15 240-D Improving patient safety—minimally-invasive strategy in the field for the treatment of a traumatic or spontaneous pneumothorax
  L. Fein, E. Nederach, B. Cutolo, F. Bertoli, V. Hefti, L. Dominioni

Lightning - K. Zafren
- 45 The shocking truths about lightning injuries!
  K. Zafren (United States)

17:00-18:00

SESSION E - Clinical update - Circulation management and cardiac arrest in mountain and remote areas - J. Ellerton / M. Milani

18:00-19:30

COFFEE BREAK

19:00-21:00

Key lecture & Closing ceremony
- 30 Recent developments and future perspectives in out-of-hospital resuscitation in mountain areas
  P. Briot (Italy) / F. Schiavo (Austria)
- 30 Presentation of XI World Congress 2016—Bamagul (Nepal) / P. Hartkamp (United States)

21:00-22:30

SEMINAR ROOM (PARALLEL SESSION)

Technical workshop - Resuscitation strategies in cable car evacuations - D. Joll / B. S. Joll

With the amount of tourist traffic via cable cars in mountain areas in the Alps, cable car evacuations belong to the basic skills of a mountain rescue team. This unique workshop presents a standard resuscitation technique that was successfully introduced in South Tyrol.

Location: Seminar 7

Scientific programme

SATURDAY 31 MAY 2014

Location: Science 7

Technical workshop - How to extricate and immobilize a patient in extreme rescue situations - J. Ellerton / D. Joll

This workshop will be a discussion of extricating and immobilisation skills from specific and extraordinary rescue situations, drawing on the long-time experience of all-based rescue teams in Switzerland and South Tyrol.

Location: Seminar 7

33

Scientific programme
4.2 Poster schedule

Posters have been assigned to the first section (High Altitude Medicine and Physiology, 26-28 May 2014) or the second section (Mountain Emergency Medicine, 30-31 May 2014). Posters can remain for the entire duration of the section, but authors should be present between 12:30 and 14:00 during the poster viewing session specified below.

4.3 Medical workshops

These refresher medical workshops are an adjunct programme. Pre-registration is required online or at the info-desk by Wednesday, 28 May 2014.

<table>
<thead>
<tr>
<th>Location / Date</th>
<th>WORKSHOP 1: Targeted temperature management in accidental hypothermia</th>
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<tr>
<td>WORKSHOP 2: Trauma management</td>
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<td>WORKSHOP 3: Mechanical chest compression devices in mountain emergency medicine</td>
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<td>WORKSHOP 4: Alternative access for drug and volume administration</td>
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<td>WORKSHOP 5: Ultrasound at high altitude I — optic nerve</td>
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<td>WORKSHOP 6: Ultrasound at high altitude II — lung</td>
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<td>WORKSHOP 7: Rescue in mountainous or remote areas</td>
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<tr>
<td>WORKSHOP 8: Special issues</td>
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</tbody>
</table>

- **Location / Date**: FREE UNIVERSITY OF BOZEN/BOLZANO / THURSDAY 29 MAY 2014
- **Time**: 9:00-12:00

**WORKSHOP 1: Targeted temperature management in accidental hypothermia**

- **Location**: Room D1.03
- **Price**: 100 €

**WORKSHOP 2: Trauma management**

- **Location**: Room D1.01
- **Price**: 100 €

**WORKSHOP 3: Mechanical chest compression devices in mountain emergency medicine**

- **Location**: Room D0.02
- **Price**: 50 €

**WORKSHOP 4: Alternative access for drug and volume administration**

- **Location**: Room D0.03
- **Price**: 50 €

**WORKSHOP 5: Ultrasound at high altitude I — optic nerve**

- **Location**: Room F0.03
- **Price**: 50 €

**WORKSHOP 6: Ultrasound at high altitude II — lung**

- **Location**: Room F0.03
- **Price**: 50 €

**WORKSHOP 7: Rescue in mountainous or remote areas**

- **Location**: Room D0.02
- **Price**: 50 €

**WORKSHOP 8: Special issues**

- **Location**: Room D0.03
- **Price**: 50 €

**WORKSHOP 9: Ultrasound at high altitude II — long**

- **Location**: Room F0.03
- **Price**: 50 €
5 Social programme

Highlight

Photo exhibition “A journey to Kyrgyzstan: Hiking among the Mountains of Heaven in Tien Shan”

Photos: Giancarlo Agazzi

Twenty photos from a 2006 summer expedition to the Chong Kemin Valley and Arpa Valley in Kyrgyzstan. The pictures describe my experience spent in this fascinating, remote and unknown country of Central Asia, in an alpine landscape among nomad people, simple and friendly, under the lee of great mountains.

5.1 Evening events

Sunday, 25 May 2014

Join us in the EURAC garden for the welcome aperitif!

Where: EURAC research, Viale Druso 1, Bozen/Bolzano, Italy

Monday, 26 May 2014

Book presentation "Wenn Grenzen keine sind: Management und Bergsteigen"

Prof. Ferdinand Malik, expert for complexity management, governance and leadership, scientist, author, entrepreneur and passionate mountaineer, will give a personal account of his new book Wenn Grenzen keine sind: Management und Bergsteigen ("If Limits Are None: Management and Mountain Climbing") and discuss with the renowned climber and guide Hanspeter Eisendle what management and mountaineering can learn from each other. This event is moderated by Günther Cologna. Congress participants and the general public are welcome! Registration not required. Simultaneous translation is provided.

When: Monday, 26 May - 20:00
Where: Auditorium, EURAC research, Viale Druso 1, Bozen/Bolzano, Italy

Open night at the Salewa headquarters

Salewa invites you to an open-door night at their headquarters in Bolzano. Participants are invited to join them for a guided tour or an introductory climbing course (max. 20 people for the climbing course). Registration required via email: ismm2014@eurac.edu.

When: Monday, 26 May - 18:00
Where: Salewa headquarters, Via Waltraud-Gebert-Deng 4, Bozen/Bolzano, Italy
Departure time: 18:15 from EURAC main entrance (free shuttle bus)

Tuesday, 27 May 2014

The Iceman

The Tyrolean Iceman, commonly known as Ötzi, is the world's oldest glacier mummy, who was found in September 1991 on the Tisenjoch pass in the Italian part of the Ötztal Alps. The ongoing studies of the 5300-year-old Copper age individual revealed important insights into his origin, his life habits and the circumstances surrounding his demise. Dr. Albert Zink and Dr. Eduard Egarter Vigl will present the most important findings and the latest scientific results regarding the famous glacier mummy.

When: Tuesday, 27 May - 20:00
Where: Auditorium, EURAC research, Viale Druso 1, Bozen/Bolzano, Italy

Thursday, 29 May 2014

FOCUS TOPIC: NEPAL – A public invitation to an expert discussion and documentary film

- Nepal mountain rescue development projects: looking to the future of organized rescue in Nepal
- A round table discussion with a representative from the Nepalese government and local and international emergency doctors and mountain rescue experts to define the future of organized rescue in Nepal. Beginning with an insider account of the Everest tragedy on 18 April 2014, we look at how to link existing rescue initiatives and add new ones to establish the basis for an integrated rescue system for target regions in Nepal.
- Film presentation

A documentary from filmmaker Stefano Levi and his small team on the struggle against blindness and awareness about the problem of cataract disease in Nepal. "OUT OF THE DARKNESS – Der Weg ins Licht" premiered at several international film festivals worldwide.

When: Thursday, 29 May – Round table discussion begins at 16:00 – Film begins at 18:00
Where: Auditorium, EURAC research, Viale Druso 1, Bozen/Bolzano, Italy

Gala dinner & Keynote speech

Join us for an elegant gala evening in the Kurhaus Merano, the cultural heart of the town of Merano. The original historical west wing of the Kurhaus dates back to 1874 and the gala room has been host to many esteemed visitors. The Kurhaus Merano is member of the Historic Conference Centres of Europe and one of Europe’s most renowned conference centres.

A welcome aperitif and gala dinner will be followed by a keynote speech by wilderness medicine expert Dr. Paul Auerbach: Bringing medicine to the wild and wilderness medicine to the world. Musical accompaniment provided by local jazz group Lösch Duo. Participation by registration only.

When: Thursday, 29 May – 20:00
Where: Kurhaus Merano, Corso Libertà 33, Merano/Merano, Italy

Bus transportation to Merano is provided for congress participants and registered guests.

Departure time: 19:15
Departure place: Via Alto Adige 35, Bozen/Bolzano, Italy
Return to Bozen: 23:00 and 23:45

Friday, 30 May 2014

Conquering the disbelief - the challenge of man at 8800 m

Renowned mountaineer Reinhold Messner and expedition medicine pioneer Dr. Oswald Oelz will give a first-hand account of the medical and public disbelief overshadowing the 1978 ascent of Mt. Everest. Congress participants and the general public are welcome! Registration not required.

- Special offer exclusively for conference participants and guests: the museum will open its doors early to visit the exhibitions or just enjoy the view before the main event starts! Bus departure time: 18:45 (see below).
- For participants joining us only for the evening event, we will start with an aperitif and accompany- ment by jazz group No Oxygen. Bus departure time: 19:45 (see below)

Please note that this is an open-air event. Don’t forget a raincoat!

In case of bad weather a new location will be announced.

When: Friday, 30 May – 20:00
Where: Messner Mountain Museum Firmian, Via Castel Firmiano 53, Bozen/Bolzano, Italy

Bus transportation to Firmiano is provided for congress participants and guests:

Departure time: 18:45 (to visit the museum)
Departure time: 19:45 (for the evening event only)
Departure place: Via Alto Adige 35, Bozen/Bolzano, Italy

Event sponsored by LEITNER
5.2 Guided excursions

Thursday, 29 May 2014

SPECIAL OFFER - Practical Excursions

Wilderness survival skills
Mr. Brian Horner and survival instructors from his team at Learn to Return Training Systems, a survival training school based in Anchorage, Alaska, are offering a wilderness skills session you won’t forget! This combination workshop-excursion is designed to provide real wilderness skills, improvised medical techniques and practical experience in a short time. In a dynamic six-hour, hands-on program, participants will learn to tie knots, make fishing nets, create emergency footwear and headgear, build shelters and build a fire with both primitive and modern techniques. Participants will build their own micro-survival kits, which they get to keep!

Tour time: 6 hours (3 hours indoors, 3 hours in the field)
Max. participants: 50

Field first aid with Dr. Urs Wiget
Renowned mountain guide and physician, Dr. Urs Wiget, will lead a small group on a practical excursion in creative first aid techniques. Participants will have hands-on exercises using limited resources in the field. This excursion is suitable for participants of any age and previous knowledge in first aid. You only need regular hiking gear.

Tour time: 5 hours
Level of difficulty: low to moderate
Max. participants: 12
Departure time: 7:30
Departure place: Via Alto Adige 35 (Hotel Alpi), Bozen/Bolzano, Italy

Scenic Excursions

Panorama Loop – Renon/Ritten
Accessible directly from the city via cable car, this trail gives you a front row panorama view of the Dolomite ranges towering over Bolzano. This excursion is suitable for families and all walking abilities. An alternative route is possible to the highest point on the plateau, the Corso del Renon/Rittenhorn (2260m). A lunch stop is planned along the way in a typical mountain hut.

Walking time: 3 hours (5 hours for alternative route)
Level of difficulty: low
Max. participants: 100
Departure time: 7:30
Departure place: Via Alto Adige 35 (Hotel Alpi), Bozen/Bolzano, Italy

Legend of the Rosengarten – Carezza/Karersee
Just a short bus ride away from the city this day trip brings you to the famous Rosengarten group, whose enchanting pink glow in the sunset is a reminder of the century-old legend of King Laurin and his rose garden. The trail winds along the eastern flank of this legendary massif, connecting the many mountain huts along the way. Lunch will be provided in one of these huts.

Walking time: 5 hours
Level of difficulty: moderate
Max. participants: 50
Departure time: 7:30
Departure place: Via Alto Adige 35 (Hotel Alpi), Bozen/Bolzano, Italy

Via ferrata “Sandro Pertini” – Val Gardena/Grödental
For those wanting a challenge, this via ferrata is a sure way to experience the Dolomites first hand. The ascent follows the via ferrata “Sandro Pertini” through its various passages up to a final elevation of 2140m. The view at the top is a due reward for your efforts! Packed lunch will be provided. The descent follows an easy hiking trail back to the starting point. Participants must have complete safety equipment (rental of equipment is possible with notice) and show adequate experience with via ferratas. Children must be over 8 years and accompanied by a parent.

Ascent time: 2 hours / Descent time: 1.5 hours
Level of difficulty: challenging
Max. participants: 25
Departure time: 7:30
Departure place: Via Alto Adige 35 (Hotel Alpi), Bozen/Bolzano, Italy

5.3 Sight-seeing programme for guests

In collaboration with a local travel agency, we have planned a side programme for accompanying guests and families. Discover the local treasures, from wine-tasting and cultural landscapes, to the Dolomites and historical Italian cities!

Monday, 26 May 2014

Dolomites – Round-trip over the passes of the world famous white mountains
Duration: full day excursion by bus, no hiking
Regular price: 45 Euro (40 Euro for registration before 21 May 2014)

Tuesday, 27 May 2014

Marlinger Waalweg near Merano – An excursion along the old irrigation channels
Duration: 7 hours, approx. 4 hours hiking
Regular price: 45 Euro (39 Euro for registration before 21 May 2014)

Wednesday, 28 May 2014

South Tyrol’s Kastanienweg – A hike from Feldthurns to the charming town of Klausen
Duration: full-day excursion, no hiking
Regular price: 85 Euro (79 Euro for registration before 21 May 2014)

Thursday, 29 May 2014

Dolomites – Roundtrip over the passes of the world famous white mountains
Duration: full day excursion by bus, no hiking
Regular price: 45 Euro (40 Euro for registration before 21 May 2014)

Friday, 30 May 2014

Innsbruck, Austria – Heart of the Alps
Duration: full-day tour, no hiking
Regular price: 59 Euro (55 Euro for registration before 21 May 2014)
Western Dolomites – A hike from the Raschätz to the picturesque Villnöß valley
Duration: 7 hours, 5 hours hiking (level of difficulty low to moderate)
Regular price: 55 Euro (49 Euro for registration before 21 May 2014)

Venice – Historic town of canals and bridges
Duration: full-day excursion, no hiking
Regular price: 85 Euro (79 Euro for registration before 21 May 2014)

Marlinger Waalweg near Merano – An excursion along the old irrigation channel system
Duration: 7 hours, approx. 4 hours hiking
Regular price: 45 Euro (39 Euro for registration before 21 May 2014)

Saturday, 31 May 2014
The vineyards of Kurtatsch – A hike through the vineyards of South Tyrol’s Unterland
Duration: 6 hours, 3 hours hiking
Regular price: 59 Euro (55 Euro for registration before 21 May 2014)

6 Sponsors and exhibitors
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