

3rd Bolzano Mummy Congress
**Ötzi – 25 years of research**
September 19th - 21st 2016

EURAC Bolzano/Bozen (Italy)

Scientific Program

**Monday, September 19th 2016**

**8.30 - 9.30 Registration and Poster Setup**

**9.30 - 10.00 Opening and Welcome Address**

Roland Psenner (President EURAC), Florian Mussner (Landesrat für Ladinische Bildung und Kultur,

Denkmalpflege, Museen, Verkehrsnetz und Mobilität), Karin Dalla Torre MAS (Direktorin der Abteilung Museen

und der Landesmuseen)

**10.00 - 10.30 Conference Introduction**

Albert Zink: Introduction Scientific Program

Angelika Fleckinger: 25 Jahre Mann aus dem Eis

**10.30 - 11.00 Coffee Break**

**11.00 - 12.45 Lectures Session I: Molecular Studies**

Chairs: N. Lynnerup, J. Zschocke

11.00 - 11.30 Introductory lecture

Frank Maixner et al.: Ancient DNA studies of the Iceman: the human

genome, pathogen detection and dietary reconstruction.

11.30 - 11.45 Valentina Coia et al.: Whole mtDNA sequencing in Alpine

populations and the genetic history of the Neolithic Tyrolean Iceman

11.45 - 12.00 Amaury Cazenave-Gassiot et al.: Lipidomics analysis of the Ötzi’s last

meal

12.00 - 12.15 Marek Janko et al.: Ötzi meets Nanotechnology - Skin, wound tissue,

and stomach content analysis

12.15 - 12.30 Thomas Rattei et al.: Microbial genomes inside the mummy of the

Iceman

12.30 - 12.45 Andreas Keller: Analysis of miRNAs in tissue specimens of the 5,300

year-old Tyrolean Iceman

**12.45 - 14.15 Lunch Break**

**14.15 - 16.50 Lectures Session II: Archaeology**

Chairs: C. Marzoli, P. Gleirscher

14.15 - 14.35 Introductory lecture

Günther Kaufmann: Der Mann aus dem Eis aus archäologischer

Sicht. Status quo der archäologischen Forschungsarbeit.

14.35 - 14.50 Walter Leitner: Neuer Hot spot am Tisenjoch?

14.50 - 15.05 Hubert Steiner: Gletscherarchäologie im Schnalstal

15.05 - 15.20 Andreas Putzer: Tracing human presence connected to Pastoralism

at Schnals Valley

15.20 - 15.35 Umberto Tecchiati, Annaluisa Pedrotti: Copper Age in Trentino Alto

Adige: New Data, Syntheses and Open Problems

**15.35 - 16.05 Coffee Break**

16.05 - 16.20 Gerhard Sperl: Neuere Aspekte zur Metallurgie der Beilklinge des

Eismannes

16.20 - 16.35 Gilberto Artioli, Ivana Angelini: Lead isotope investigation of Iceman

copper axe: provenance of the metal

16.35 - 16.50 Benno Baumgarten, Günther Kaufmann: Die Beilklinge des Mannes

aus dem Eis – Hinweise auf Produktion, Bearbeitung und Nutzung

**16.50 - 17.20 Lectures Session III: Museology**

Chair: F Marzatico

16.50 - 17.05 Alex Barker, Edward Liebow: „World on the Move: the Copper Age”

– A Research Symposium

17.05 - 17.20 Emlyn Koster: Insights into the Human Journey: A New Touring

Exhibition

**Tuesday, September 20th 2016**

**9.00 - 10.30 Lectures Session IV: Archeobotany, Isotopes, Dating and**

**Climate**

Chairs: C. Lass-Flörl, W. Leitner

9.00 - 9.30 Introductory lecture

Klaus Oeggl et al.: Archaeobotany and the possible involvement of

Ötzi, the Iceman, in pastoral activities

9.30 - 9.45 James Dickson, Klaus Oeggl: Bryophytes and the Tyrolean Iceman

9.45 - 10.00 Wolfgang Müller et al.: On the heavy metal(loid) exposure of the

Alpine Iceman recorded in his nail, hair and soft tissue

10.00 - 10.15 Walter Kutschera et al.: Radiocarbon measurements around the

Iceman

10.15 - 10.30 Paolo Gabrielli: Climate and environmental changes in South Tyrol

from the Ortles ice core since the time of the Iceman

**10.30 - 11.00 Coffee Break**

**11.00 - 12.45 Lectures Session V: Radiology and Cause of Death**

Chairs: F. Rühli, E. Egarter-Vigl

11.00 - 11.30 Introductory lecture

Patrizia Pernter et al.: The Iceman: a radiological summary 25 years

after his discovery and Iatrogenic modifications on the Iceman

11.30 - 11.45 Paul Gostner, Patrizia Pernter: New radiological insights into the

Iceman´s state of health

11.45 - 12.00 Stephanie Panzer et al.: Checklist and Scoring System for the

Assessment of Soft Tissue Preservation in CT Examinations of

Human Mummies: Application to Ötzi

12.00 - 12.15 Chiara Villa, Niels Lynnerup: Ötzi segmented

12.15 - 12.30 Oliver Peschel et al.: Re-evaluation of the cause of death of the

Neolithic Iceman, c. 5300 BP

12.30 - 12.45 Alexander Horn: Behavioural analysis of the iceman murder case

**12.45 - 14.15 Lunch Break**

**14.15 - 17.00 Lectures Session VI: Clothing and Tools & Miscellaneous**

Chairs: P. Gleirscher, F. Marzatico

14.15 - 14.45 Ursula Wierer et al.: The Iceman lithic toolkit: raw material,

technology, typology and use

14.45 - 15.00 Paola Salzani, Umberto Tecchiati: For a Cultual Geography of “The Ice

Man”: Raw Materials, Places of Worship and Ideology of the Warrior

Ancestor between Alto Adige and the Lessini Mountains

15.00 - 15.15 Niall O’Sullivan et al.: A whole mitochondria analysis of the Tyrolean

Iceman’s leather provides insights into the animal sources of copper age clothing

15.15 - 15.30 Carney Matheson: The archaeochemistry of the artefacts and

associated remains of Ötzi the Iceman

**15.30 - 16.00 Coffee Break**

16.00 - 16.15 Manuel Lizarralde: Were Ötzi’s bow stave and arrow shafts planned

to be effective for hunting and warfare?

16.15 - 16.30 Martin Callanan: Ötzi, Primus inter pares- The Iceman seen from

the field of glacial archaeology

16.30 - 16.45 Sandra Lösch, Amelie Alterauge: Death in the Ice: Re-investigations

of the Remains from the Theodul Glacier (Switzerland)

16.45 - 17.00 Oliver Gauert: Two Remarkable Peruvian Skulls from the Collection

of the Roemer- und Pelizaeus-Museum Hildesheim

**17.00 - 17.15 Session VII: Short Poster Presentations** (5 min each)

Chair: F. Maixner

Valeria Mattiangeli et al.: Pick the right pocket. Sub-sampling of

bone sections to investigate diagenesis and DNA preservation

Valentina Depellegrin et al.: Hunting and herding: Animal

exploitation in Isera la Torretta (Rovereto, TN, Italy) during the late

Neolithic period and early Copper Age. Preliminary results of the

zooarchaeological analysis

Beat Schmutz et al.: Secular change of femoral morphology from a

clinical perspective: How would a modern anatomically precontoured

fracture fixation implant fit the Neolithic Iceman in

comparison to medieval and modern femora?

**18.00 - 19.00 Round Table: Fallanalyse Ötzi - Neue Rückschlüsse zum**

**Tötungsdelikt am Mann aus dem Eis**

Öffentliche Veranstaltung / Public lecture / Evento aperto al pubblico

In deutscher Sprache / In German language. Simultanous translation

will be provided/ In lingua tedesca con traduzione simultanea

Moderation: **Martina Schönfeld, ZDF Hauptredaktion Geschichte**

**und Wissenschaft**

Einführung Projekt Fallanalyse: Angelika Fleckinger

Teilnehmer Diskussion/Participants: Alexander Horn (Polizeipräsidium

München), Albert Zink (EURAC), Oliver Peschel (University of

Munich), Klaus Oeggl (Universtiy of Innsbruck), Paul Gleirscher

(Landesmuseum Kärnten), Frank Rühli (Universtiy of Zurich)

**19.00 - 20.30 Aperitif (EURAC foyer auditorium)**

**Wednesday, September 21st, 2016**

**9.00 - 10.15 Lectures Session VIII: Conservation and Tattoos**

Chairs: O. Peschel

9.00 - 9.30 Introductory lecture

Marco Samadelli et al.: 25 Years of Conservation of the Iceman.

Development of analytical methods and technological devices

9.30 - 9.45 Ludwig Moroder: Characterization of the cultivable microbial flora

on the Mummy OETZI

9.45 - 10.00 Marcello Melis et al.: Complete mapping of the tattoos of the 5300

years old Tyrolean Iceman

10.00 - 10.15 Maximilian Moser et al.: Newly discovered tattoos support

acupuncture treatment in Oetzi

**10.15 - 10.45 Lectures Session IX: The Iceman’s voice**

Chair: P. Pernter

10.15 - 10.25 Francesco Avanzini, Rolando Füstös: How do mummies and fossils speak

10.25 - 10.35 Rolando Füstös et al.: Anatomy and physiology of the voice organs:

what do we think about the Iceman´s voice

10.35 - 10.45 Piero Cosi, Andrea Sandi: How do we reconstruct the Iceman´s voice

**10.45 - 11.15 Coffee break**

**11.15 - 12.15 Round Table: Future of Iceman Research, Conservation and**

**Museology**

Open Discussion

Moderation: Albert Zink (EURAC)

Participants:

Angelika Fleckinger (South Tyrolean Museum of Archaeology)

Emlyn Koster (North Carolina Museum of Natural Sciences)

Catrin Marzoli (Amt für Bodendenkmäler, Provinz Bozen)

Annaluisa Pedrotti (University of Trento)

Patrizia Pernter (Central Hospital Bolzano)

Oliver Peschel (University of Munich)

Frank Rühli (University of Zurich)

**12.15 - 12.30 Closing Remarks**

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