

# AIQUA WORKSHOP

## Updates on the chronology, stratigraphy and environments of the Last Glacial Maximum and the Late Glacial on the southern side of the Alps

Organized by AIQUA - Italian Association for Quaternary Research



Under the auspices of INQUA  
SACCOM Stratigraphy and Chronology  
TERPRO Terrestrial Processes, Deposits and History



INQUA  
International Union for Quaternary Research

Dates: June 22-23, 2017

Venue: Department of Geosciences, University of Padova,  
Aula Arduino, via G. Gradenigo 6, 35131 Padova (Italy)



DIPARTIMENTO  
DI GEOSCIENZE



Organizing committee: P. Mozzi, G. Monegato, A. Fontana, S. Rossato

In the last two decades, a number of investigations has brought significant advances in the definition of the stratigraphy and chronology of the Last Glacial Maximum (LGM) and the Late Glacial in the Italian Alps and piedmont alluvial basins. The main aim of this workshop is to provide a comprehensive, state-of-the-art framework of the geomorphic, sedimentary and palaeoenvironmental events that occurred in this key area, which is located at the critical transition between continental Europe and the Mediterranean region. The presence of long-investigated Upper Palaeolithic sites in the Italian sub-Alpine region rises stimulating questions on the interaction between early humans and extreme environmental conditions and landscapes of the last glaciation.

The workshop is articulated in a first day of solicited talks that will address some major topics, with ample time devoted to the discussion of problematic aspects, as well as short presentations and posters by the participants. On the second day there will be a field trip in the Venetian Prealps centered on the arrival, acme and decay of the glaciers in the terminal tracts of the Brenta and Piave valleys, and the dynamic response of the glaciofluvial system.

Hot topics of the workshop:

- onset, phases and termination of the Alpine LGM
- sediment production and delivery from glacial and periglacial areas to the basin
- piedmont and in-valley terminal glacial tongues
- LGM and Late Glacial climate and environments
- dating methods and integrated chronologies
- territories and settlements of the Upper Palaeolithic hunter-gatherers

Researchers, students and professionals interested in these problems are warmly invited to participate. Open mind and willingness to discuss and cross-correlate disciplines and data sets in an informal atmosphere are welcome.



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**Department of Geosciences, University of Padova**



**Thursday June 22** (Aula Arduino, Department of Geosciences, University of Padova)

- 10:00 – 10:30 Welcome of the President of AIQUA and the Chair of the Department of Geosciences. Introduction to the workshop by the organizers.
- 10:30 – 10:50 The LGM glacial systems on the southern side of the Alps (G. Monegato – IGG CNR)
- 10:50 – 11:10 Alluvial megafans at the foot of the Alps (A. Fontana, P. Mozzi, S. Rossato – University of Padova)
- 11:10 - 11:30 The Po River Lowstand Wedge during the LGM in the Adriatic basin: how timing of deposition, sediment architecture and paleoenvironment change reflect global sea level and regional hydrological cycle (C. Pellegrini – ISMAR CNR; A. Asioli – IGG CNR; K.M. Bohacs, T.M. Drexler, M.L. Sweet – EXXONMobil; V. Maselli - University of Aberdeen and ISMAR CNR; M. Rovere, T. Tesi, F. Gamberi, G. Dalla Valle, F. Trincardi - ISMAR CNR)
- 11:30 - 11:50 Last Glacial Maximum and Lateglacial stadials in the Maritime Alps according to <sup>10</sup>Be cosmogenic dating (A. Ribolini – University of Pisa; M. Spagnolo - University of Aberdeen; P. R Federici – University of Pisa)
- 11:50 - 12:10 The speleothem record in the Eastern Italian Alps during the Last Glacial Maximum (A. Borsato - University of Newcastle, Australia; R. Belli - University of Newcastle, Australia and University of Trento; S. Frisia - University of Newcastle, Australia; J. Hellstrom - University of Melbourne)
- 12:10 – 12:30 Ecosystems and climate in Northern Italy between 40 and 11 ka cal BP. A regional update of existing data and pollen-inferred palaeotemperature reconstruction (C. Ravazzi, R. Pini, F. Vallé – IDPA CNR)
- 12:30 – 12:50 Loess chronology and stratigraphy along the Po Plain Loess Basin (A. Zerboni, M. Cremaschi – University of Milano)
- 12:50 – 14:00 Free lunch break
- 14:00 - 15:20 AIQUA Assembly
- 15:20 – 15:40 A man's land: a view on the Paleolithic settlements from the Appenine watershed to the Prealps (M. Peresani – University of Ferrara)
- 15:40 – 16:00 Rock glacier evolution in the Alps since the LGM (R. Colucci – ISMAR CNR; M. Guglielmin – University of Insubria)
- 16:00 -16:30 Short presentations and posters by the participants
- 16:30 - 17:15 Discussion on the timing of landscape evolution and palaeoecosystems from the Adriatic plain to the Alps during the Last Glacial Maximum and the Late Glacial.
- 17:15 – 17:45 Introduction to field trip (P. Mozzi, S. Rossato – University of Padova; G. Monegato – IGG CNR)

### **Friday June 23 - Field trip in the Venetian Prealps**

Departure from Padova, Department of Geosciences, at 8:00. Return to Padova or Venice (Mestre) railway station, at 17:30. Participants are kindly invited to contact in advance the organizing committee for any specific need related to the return time and place. Field trip leaders: P. Mozzi, G. Monegato, S. Rossato.



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**Padova, June 22—23, 2017**  
**Department of Geosciences, University of Padova**



### **PRACTICAL INFORMATION**

#### **Participating to the workshop**

The first day of the workshop, June 22, is open and free of charge.

As a help for better organization, and to ensure access to the workshop room, we kindly request ALL participants to confirm their presence by sending the registration form within June 18.

Participants that intend to present a poster must send the registration form with the title of the poster within June 11. The possibility of having short (5') oral presentations as contribution to the final discussion will be considered by the organizers, depending on the available time. Participants who wish to have a short oral presentation must indicate it in the registration form, with same deadline as posters.

#### **Field trip**

The field trip on June 23 is open just to AIQUA fellows. It is, however, possible to become a member of AIQUA by simply paying the 2017 fellowship fee of 60 euro, prior to registering for the workshop.

Payment can be done through:

Bank transfer to AIQUA, bank UNICREDIT BANCA, Agency address: P.le S. Croce

IIBAN number: IT 63 M 02008 12710 000100804091

Swift code: UNCRITM1MP7

Credit card payment at the AIQUA website: <http://www.aiqua.it>

The field trip registration form must be sent by June 8, together with evidence of the payment of the 2017 AIQUA fee. Maximum number of participants to the field trip is 24, on a first-come first-served criteria.

A light lunch at a restaurant during the field trip will be payed directly by the participants (expected cost around 15 euro).

#### **Contact**

Registration forms and any communication must be sent to:

[alpineLGM2017@aiqua.it](mailto:alpineLGM2017@aiqua.it)

#### **Deadlines**

June 8: registration for the field trip (be sure to have paid the 2017 AIQUA fellowship fee)

June 11: registration for participants who intend to present poster and/or have an eventual short oral communication on June 22.

June 18: registration for all participants to the workshop on June 22 (recommended by the organizing committee, in order to ensure access to the workshop room to all participants).