



# ANTARCTICA2K

## Antarctica2k 2015 meeting

### Venue

The 2015 Antarctica2k working group meeting, organized by the Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice will take place on 3-4 September 2015 at the Istituto Veneto di Scienze, Lettere ed Arti, Palazzo Franchetti, Campo Santo Stefano, San Marco 2847, 30124 Venezia (Italy).

<http://www.palazzofranchetti.it/>

[http://www.palazzofranchetti.it/vic\\_dove\\_siamo.php](http://www.palazzofranchetti.it/vic_dove_siamo.php)

For reaching the venue: [http://www.palazzofranchetti.it/vic\\_come\\_raggiungerci.php](http://www.palazzofranchetti.it/vic_come_raggiungerci.php)

### Meeting format

All participants at the workshop will be expected to contribute to the Antarctica2k objectives by sharing and compiling data, by providing synthesis products or by comparing model simulations with available data.

The workshop will lead to the publication of two community papers: one on temperature reconstruction and another on the reconstruction of past snow accumulation rates over the past two millennia. The first day of the workshop will be devoted to oral presentations on both subjects while the second day will be devoted to few oral presentations, as well as to discussing and planning the two papers. Some space for poster presentation is foreseen.

**Please, keep in mind these objectives when preparing your contributions (oral, poster or slides for discussion).**

The meeting will host the Ceremony for the assignment of the 2015 Martha T. Muse Prize for Science and Policy in Antarctica, which has been awarded to Dr. Valérie Masson-Delmotte for her

work on the characterization, quantification and understanding of past changes in climate and water cycle, translating the isotopic data to paleo-temperature records.

The Ceremony will be hosted at Palazzo Franchetti as well.

For further details, please visit the Muse Prize website at <http://www.museprize.org/>

## PROGRAMME

### ***3 September 2015 (Palazzo Franchetti, Sala Alta)***

08:15-08:45 Registration

09:00-09:15 Barbara Stenni: practical information and introduction

09:15-09:30 Lucien von Gunten: PAGES 2k network

09:30-10:00 Raphael Neukom: Southern Hemisphere climate variability over the past 2k

10:00-10:30 Michael Sigl: A common precise timescale for ice cores in Antarctica during the Common Era

10:30-11:00 Valerie Masson-Delmotte: East Antarctic climate variability during the last 2000 year in the perspective of interglacial climate variability

*11:00-11:30 Coffee Break*

11:30-12:00 Anais Orsi and Eric Steig: Climate of the last 2000 years in West Antarctica, from stable isotope, isotope diffusion, and borehole thermometry method

12:00-12:30 Dmitry Divine: Climatic signals from 76 shallow firn cores in Dronning Maud Land, East Antarctica

*12:30-14:00 Lunch*

14:00-14:30 Mark Curran: High-resolution climate data from the Law Dome and ABN ice cores

14:30-15:00 Nerilie Abram: The onset of Industrial-era warming across the oceans and continents

15:00-15:30 Dominic Hodgson: A critical assessment of temperature proxies in Antarctic lake sediment records

15:30-16:00 Xavier Crosta: Antarctic sea ice history over the past 2000 years: A marine perspective.

*16:00-16:40 Coffee Break/POSTER*

16:40-17:10 Eric Wolff: Prospects for sea ice reconstruction for Antarctica - the contribution of ice cores

17:10-17:40 Massimo Frezzotti: Snow accumulation process: representativeness at spatial and temporal scale

## 2015 Martha T. Muse Prize for Science and Policy in Antarctica

18:00-19:00 Aperitif

19:00-20:00 Award ceremony and Lecture by Valérie Masson-Delmotte (*Palazzo Franchetti, Sala del Portego*).

20:30 Commemoration Dinner

### **4 September 2015 (Palazzo Franchetti, Sala Alta)**

09:00-09:30 Julian Nicolas: Reconstructing Antarctic temperature changes since 1900: can global reanalyses help?

09:30-10:00 Michiel Van den Broeke: Recent (1980-present) temperature and accumulation distribution over Antarctica: a combined observational and modeling approach

10:00-10:30 Hugues Goosse: Identifying common signals in reconstructions and simulations at southern hemisphere high latitudes over the past millennium

10:30-11:00 Discussion on structure of T paper

*11:00-11:20 Coffee Break*

11:20-12:00 POSTER

12:00-12:45 Discussion on structure of T paper and assignment of tasks.

*12:45-14:00 Lunch*

14:00-15:30 Discussion on structure of the snow accumulation rate paper.

15:30-16:00 Assignment of tasks for snow accumulation rate paper

*16:00-16:20 Coffee Break*

End at about 17:00

### **POSTERS**

1-Daniel Dixon: A new multi-core proxy for Southern Hemisphere atmospheric circulation from West Antarctic ice core sodium records

2-Liz Thomas: Climate variability in Ellsworth Land since 1700

3-Rachel Rudd - Climate variability from lake sediments in East Antarctica.

4-François De Vleeschouwer - Fuegian peatlands: recorders of environmental changes over the Holocene.

5-Zicheng Yu - Late Holocene temperature shifts from coastal peat records on the West Antarctic.

6-Marc Oliva - Ongoing analysis of lake sediments from Byers Peninsula (Livingston Island, South Shetland Islands).

7-Anais Orsi: Innovative methods to infer paleotemperature from Antarctica, and applications to the quantification of the little ice age cooling, and the recent warming trend.

8- Alexey Ekaykin: Stacked climatic record for the past 300 years in the Indian Ocean sector of Antarctica based on the data from 5 ice cores

9- Andrea Spolaor: Halogens in ice core, Are we looking sea ice signal?

10- Favier Vincent: On the potential control of SAM and IPO climate variability on Law Dome sea salt deposition

11- Francisco Fernandoy: High temporal resolution isotope signature from the northern Antarctic Peninsula

### **Local Organizing Committee and Sponsors**

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