# PAIS Conference 2017 CONFERENCE HANDBOOK

Trieste - Italy Palazzo dei Congressi della Stazione Marittima



# Scientific Organizing Committee

#### Co-chairs

Laura De Santis OGS, Trieste, Italy Tim Naish Antarctic Research Centre. Victoria University of Wellington, New Zealand

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## ocal **Organizing** Committee

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Laura De Santis

#### Members

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## eneral Information

It is prohibited to copy any presentation from the desktops in the lecture rooms. It is prohibited to take photos of any scientific material at the conference. without permission of the presenter.

## Slide preview point

The authors must upload their presentations at the presentation upload desk, next to the registration desk, within 30 minutes prior to the actual time block of the session. A lecture room assistant will be available for any help. It is not allowed to use personal laptops for presentations. You may use vour laptop for vour presentation only during the workshops or the side meetings.

## Time allowance for presentation

The time allocated for each invited presentation is 30 minutes and for the other presentation is 15 minutes (including questions).

#### Conference rooms

Oral presentations are scheduled in thematic sessions. and all plenaries, in room Saturnia. Workshops will be held in the rooms Saturnia. Oceania AB, Vulcania 1.

### Poster

All posters will be up for the entire week, from Monday morning to Friday afternoon. They will be located near the registration desk and in the mezzanine above it. Posters must be removed by the end of the conference. Posters should be 90 cm-120 cm in portrait configuration.

## Internet

Free Wi-Fi is available at the conference venue.

Certificate of attendance Certificate of attendance will be given upon request to the registration desk.

Registration and information desk is located in the main hall from 7:30 to 18:00 from Monday September 11th to Friday September 15th

t is an honour to host the Past Antarctic Ice Sheet PAIS Conference 2017 on behalf of OGS. Since the 19th century, Trieste has had a long history of polar and marine exploration when the Austrian-Hungarian Empire established nautical schools, astronomical and magnetic observatories and hydrographic stations. The naval officer Carl Weyprecht developed the International Polar Year (IPY) here in 1882-1883, after his expedition in the Arctic of 1872-1874. The first IPY was a treaty, signed by scientists with a diplomatic mandate, and representatives of 11 countries. A network of 15 circumpolar scientific stations were built, which shared programmes and data.

Today, Trieste still has the highest ratio of scientists to population of any city in Europe. Most of the scientific institutions based in Trieste (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale OGS, Centro Nazionale delle Ricerche-Istituto di Scienze Marine CNR-ISMAR, International Center for Theoretical Physics ICTP, International School for Advanced Studies, SISSA, Univ. of Trieste) are organizing the PAIS conference as a joint effort, under the leadership of OGS. These organisations also run highly regarded geoscience and climate programmes in both Polar Regions, within a range of international collaborations and projects.

Since 1988, OGS has undertaken scientific research in the Polar Regions, thanks to funding from the National Research Program in Antarctica (PNRA) and from the European Union, within the programmes of the Scientific Committee for Antarctic Research (SCAR) and of the International Arctic Science Committee (IASC). OGS scientific expertise is mainly focused on geology and geophysics. Nevertheless, participation to 11 geophysical campaigns in Antarctica and 3 in the Arctic with the research vessel OGS Explora, and to projects on other vessels and on land in collaboration with international (European and extra European) partners has increased its biologic and oceanographic competence. OGS scientists are also actively involved in the Ocean Drilling Program, particularly on the Antarctic margins, by providing the geophysical site survey and co-leading expeditions.

On behalf of OGS, I would like to wish to all the participants a fruitful and inspiring conference.

Maria Cristina Pedicchio

n the behalf of the Scientific and Organizing Committees we welcome you to Trieste and thank you for joining us for this event. We comprise 200 scientists from 17 countries, coming together to present recent results on the latest understanding of the sensitivity of the Antarctic Ice Sheet and its contribution to past and future sea level and climate.

The PAIS conference aims to focus on high priority questions relevant to the Intergovernamental Panel on Climate Change (IPCC) and the recent Scientific Committee for Antarctic Research (SCAR) Horizon Scan for the next 20 years of Antarctic Research. A major outcome from the conference will be an evaluation of the current state of Antarctic ice sheet and sea-level science in order to outline future research priorities beyond PAIS, within the framework of SCAR and a new phase of IODP.

The conference is structured into 5 broad themes with presentations in a single plenary hall. Time is devoted to discussion each day at the end of each theme. Posters will be up for the entire week near the coffee break area and there will be dedicated time for posters every day.

One of the important aims of this conference is to engage the future generation and we are delighted that about half of the conference participants are students and early career scientists.

The conference has an entire day dedicated to workshops, one of which is run by the Association of Polar Early Career Scientists APECS about the use of social media to effectively communicate science to the wider public. Side events will involve local schools and citizens with film shows, seminars, and educational laboratories. A short film will be shown on Thursday late afternoon about PAIS international expeditions emphasising the importance of collaborative efforts to address ambitious challenges.

We thank the Istituto Nazionale di Oceanografia e di Geofisica Sperimentale OGS and the New Zealand Antarctic Research Center ARC at Victoria University of Wellington for their contribution in organizing this conference.

We recognize the important contribution from University of Trieste, Programma Nazionale delle Ricerche in Antartide PNRA, International Ocean Discovery Program IODP, European Consortium for Ocean Research Drilling ECORD and in particular the IODP-Italian branch, US-National Science Foundation US-NSF and, International

Union of Geodesy and Geophysics IUGG associations for the Physical Sciences of the Oceans IAPSO and for the Cryosphere Science IACS, Centro Nazionale delle Ricerche-Istituto di Scienze Marine CNR-ISMAR, International Center for Theoretical Physics ICTP, International School for Advanced Studies, SISSA, The World Academy of Sceince TWAS, Italian Ministry of Foreign Affairs MAE, and our major sponsor Scientific Committee for Antarctic Research SCAR for providing funds to organize the meeting and to support the participation of early career and developing country scientists.

We are very excited about the programme, and hope that the conference will be stimulating, engaging, and allow you to reconnect with old friends, and develop new collaborations.

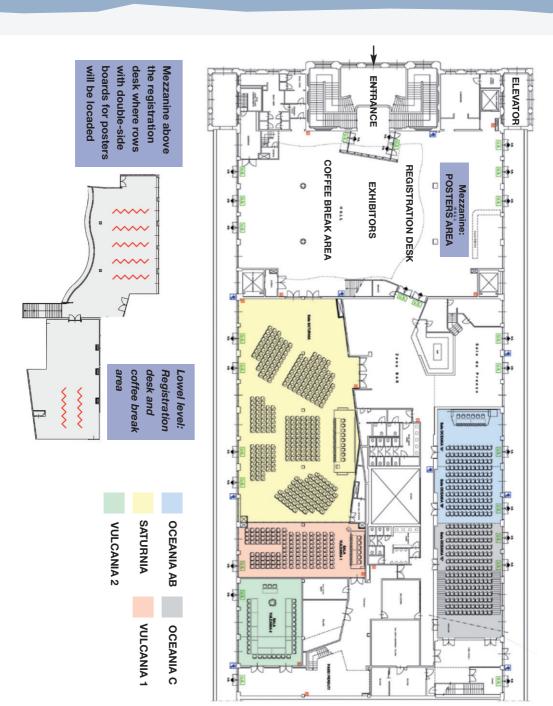
Best wishes, Laura and Tim

Co-chief Officers, SCAR-PAIS research programme.

Laura DeSantis, Istituto Nazionale di Oceanografia e di Geofisica Sperimentale OGS Tim Naish, Antarctic Research Centre, Victoria University of Wellington, New Zealand

Louis De fourtis

The meeting rooms of Conference



## Sunday September 10th

#### 18:30 - 20:00 Ice breaker

Caffè degli Specchi, Piazza Unità d'Italia - Trieste

## Monday September 11th

#### SATURNIA ROOM

8:00 Onsite registration opens 9:00 - 9:30 Welcome and greetings from: OGS President Maria Cristina Pedicchio,

PAIS co-chief officers Laura De Santis and Tim Naish.

## THEME 1A Advances in Antarctic ice-sheet reconstructions from geological and ice core archives: LGM to Recent

PNRA-CSNA president Antonio Meloni,

Chair: Tim Naish

#### **SATURNIA ROOM**

9:30 - 10:00 Invited Louise Sime

Advances in Antarctic ice-sheet reconstructions from ice core archives

10:00 - 10:30 Invited Mike Bentley

Advances in Antarctic ice-sheet reconstructions from geological archives: Recent reconstructions (Last Interglacial to present)

10:30 - 10:45 Nancy Bertler et al.

Wind Driven Ocean/Ice Interactions during the Ross Sea Region Deglaciation

10:45 - 11:00 Barbara Stenni et al.

Regional and continental scale Antarctic climate variability over the last 2,000 years

11:00 - 11:15 Reed Scherer et al.

Extensive Holocene grounding line retreat and uplift-driven readvance across Ross and Ronne sectors of the West Antarctica

11:15 - 11:45 Coffee break

11:45 - 12:00 Rob McKay et al.

Reassessing the post-Last Glacial Maximum retreat history from the Southwest Ross Sea

12:00 - 12:15 John Anderson et al.

Uncovered anatomy of a subdiacial hydrological system coupled to

Uncovered anatomy of a subglacial hydrological system coupled to past ice sheet grounding lines

12:15 - 12:30 Philip Bart

A modern-day unpinning of the Ross Ice Shelf from Ross Bank

12:30 - 12:45 Claus Hillenbrand et al.

Reconstruction of Late Quaternary palaeoenvironmental changes on the West Antarctic continental margin using a multi-proxy approach

12:45 - 13.00 Laura De Santis et al.

Exploring past and modern bottom current pathways along the continental margin: the Ross Sea survey 2017

13:00 - 14:15 **Lunch** 

Chair: Laura De Santis

14:15 - 14:30 Amy Leventer et al.

Searching for paleoclimate archives on the East Antarctic margin: Sabrina Seafloor Survey 2017

14:30 - 14:45 Kate Newton et al.

Glacial discharge, productivity and oceanic variability from the Antarctic coastal zone: results from a 171 m Holocene sediment core from IODP Expedition 318

14:45 - 15:00 Fausto Ferraccioli et al.

New aerogeophysical views of bedrock topography, subglacial geology and englacial layers in the South Pole sector of the East Antarctic Ice Sheet

15:00 - 15:15 Bethan Davies et al.

George VI Ice Shelf: Holocene stability and interactions with fluctuating valley glaciers on Alexander Island, Antarctic Peninsula

15:15 - 15:30 James Smith et al.

Using sub-ice- shelf sediments to reconstruct glacier history - a case study from Pine Island Glacier

15:30 - 15:45 Dominic Hodgson et al.

Deglaciation and future stability of the Coast Land ice margin, Antarctica

15:45 - 16:00 Coffee break

16:00 - 17:00 Poster session

Program

WORKSHOP-

## 17:00 - 18:00 Plenary discussion on theme 1A

Chair: Nancy Bertler; Panel: John Anderson, Rob McKay, Louise Sime, Mike Bentley

18:00 - 20:00

#### **VULCANIA 1 ROOM**

Seismic Data Library System (SDLS) business meeting

Chairs: Frank Nitsche, Chiara Sauli, open

#### **OCEANIA AB ROOM**

IODP Exp. 374 pre-cruise meeting

Chairs: Rob McKay, Laura De Santis, Denise Kulhanek, closed

#### **SATURNIA ROOM**

APECS - Social Media and Science Communication

Chair: Andrea Spolaor, Mathieu Casado, François Burgay, Federico Dallo, Jilda Caccavo, Giulia Massolino, **open** 

## Tuesday September 12th

## THEME 1B Advances in Antarctic ice-sheet reconstructions from geological and ice core archives - Deep time reconstructions

#### SATURNIA ROOM

8:00 Onsite registration opens

Chair: Sandra Passchier

8:30 - 9:00 Invited Richard Levy et al.

Antarctic ice sheet sensitivity to orbital forcing, crustal subsidence,

and carbon dioxide fluctuations

9:00 - 9:15 Robert Larter et al.

Development of a large sediment drift near the mouth

of Marguerite Trough, Antarctic Peninsula as a record of past ice

stream dynamics

9:15 - 9:30 Karsten Gohl et al.

MeBo seabed drilling in the Amundsen Sea Embayment:

Operational experience and preliminary results

Program

9:30 - 9:45	Gabriele Uenzelmann-Neben
	Variations in Ice Sheet Dynamics along the Amundsen Sea and Bellingshausen Sea West Antarctic Ice Sheet margin
9:45 - 10:00	Joseph Prebble et al.
	Antarctic ice sheet excluded from the western Ross Embayment
	during the earliest Oligocene
10:00 - 10:15	Guy Paxman et al.
	Long term landscape and ice sheet evolution of the Wilkes Subglacial Basin, East Antarctica
10:15 - 10:30	Tina van de Flierdt
	Geological evidence for Late Pleistocene variability
	of the East Antarctic Ice Sheet?
10:30 - 11:00	Coffee break
11:00 - 11:15	Francesca Sangiorgi et al.
	The role of the ocean for Antarctic cryosphere dynamics during
	mid-Miocene: a view from offshore Wilkes Land
11:15 - 11:30	Yusuke Suganuma et al.  Reconstruction of the East Antarctic ice sheet variability during the last 3
	Ma in the central & eastern Dronning Maud Land, East Antarctica
11:30 - 11:45	Trevor Williams et al.
	Using Sediment Provenance to Study Ice Streams in the Weddell Sea
	Embayment of Antarctica
11:45 - 12:30	Poster session
12:30 - 13:30	Lunch
THEME 2	Advances in understanding the drivers, processes, and rates of past
I DEIVIE Z	and future Antaratic ica about abanda from models and data

## 14:00 - 14.30 Invited Paolo Stocchi et al.

SATURNIA ROOM Chair: Phil Bart 13:30 - 14:00 Invited Florence Colleoni

Past unknowns for an unknown future

Relative sea-level changes and sediment deposition: a first step toward a fully coupled system

and future Antarctic ice-sheet change from models and data

Program

14:30 - 14:45	Catherine Bradshaw et al.  Decoupling of temperatures and ice volume in the Middle Miocene: a missing piece of the puzzle?
14:45 - 15:00	Edward Gasson et al.  The Antarctic ice sheet during the mid-Miocene and mid-Pliocene
15:00 - 15:15	Gerrit Lohmann et al.  Antarctic ice sheet during the Last Interglacial: Thresholds and Feedbacks
15:15 - 15:30	Terry Wilson et al.  Antarctic ice mass change since the LGM: constraints from geodetic measurements of bedrock crustal motions
15:30 - 15:45	Christine Siddoway et al.  New insights into the Ross Ice Shelf region ice, ocean, bathymetry, and lithosphere through IcePod airborne geophysical data
15:45 - 16:00	Daniel Lowry et al.  Transient ice sheet simulation of the Ross Ice Shelf deglaciation
16:00 - 16:30	Coffee break
16:30 - 16:45	Enea Montoli et al. Impact of Ocean basal melting formulations: Pine Island and Totten glaciers case study
16:45 - 17:00	Favier Vincent et al.  How to give accurate SMB forcing to ice dynamic model for the 21st century projections?
17:00 - 18:00	Plenary discussion on Theme 1B and Theme 2 Chair: Tina Van de Flierdt; Panel: Richard Levy, Florence Colleoni, Paolo Stocchi, Kasten Gohl

IN FRONT OF THE CONFERENCE VENUE FOR THE SOCIAL DINNER IN AQUILEIA

**DEPARTURE BY BUS** 

18:30

## **WORKSHOP** day

Wednesday September 13rd

#### 8:00 - 10:00 **SATURNIA ROOM**

Mid to high latitude climate impacts on EAIS stability since the LGM. Defining knowledge gaps and research priorities. Chairs: Vincent Favier, Tessa Vance, Tas van Ommen, open

#### 8:00 - 10:00 **OCEANIA AB ROOM**

**Subcommittee on paleobathymetry and paleotopography.** Chairs: *Karsten Gohl. Stewart Jamieson*. **open** 

10:00 - 10:30 Coffee break

#### 10:30 - 12:30 **SATURNIA ROOM**

Can we constrain and reconstruct the extent of the past and future ice shelves? Models and observations, Antartica future tipping point. Chairs: Florence Colleoni, Laura De Santis, Fabio Florindo, Paolo Stocchi, open

#### 10:30 - 12:00 **OCEANIA AB ROOM**

Terrestrial-Marine Regional Glacial History, Terra Nova Bay area. Chair: *Jamey Stutz*, open

#### 13:30 - 15:00 **SATURNIA**

PRAMSO - Palaeoclimate Records from the Antarctic Margin and Southern Ocean.

Chair: Tim Naish, open

15:30 - 16:00 Coffee break

#### 16:00 - 18:00 **SATURNIA ROOM**

IODP mission-specific platform Expedition 373, Antarctic Cenozoic Climate.

Chairs: Trevor Williams, Carlota Escutia, open

#### 16:00 - 18:00 **OCEANIA AB ROOM**

Southern Ocean Climate Evolution (IODP 918-pre).

Chairs: Minoru Ikehara, Xavier Crosta

#### 18:00 - 20:00 OCEANIA AB ROOM

Internal post-cruise meeting of the PS104/MeBo Science Team. Chair: Karsten Gohl. closed

#### 18:00 - 20:00 VULCANIA 1 ROOM

Internal post-cruise meeting of the OGS Explora 2017 cruise science team

Chairs: Laura De Santis. Michele Rebesco. closed

#### 18:00 - 20:00 **SATURNIA ROOM**

Film "Ice and the Sky" (Language: English)

## Thursday September 14th

THEME 3	Bipolar connections and far-field responses to Antarctic ice sheet change
	SATURNIA ROOM
8:00	Onsite registration opens
	Chair: Angelo Camerlenghi
8:30 - 9:00	Invited Andrea Dutton Inferring Antarctic ice sheet contributions to past interglacial sea level highstands from far-field sea level reconstructions.
9:00 - 9:30	Invited Julie Brigham-Grette et al. Plio-Pleistocene Teleconnections between the Two Poles: emerging Questions to address Earth's future.
9:30 - 10:00	Invited Rob DeConto et al. Using past Ice sheet dynamics to improve models and predictions of future sea level
10:00 - 10:15	Renata Giulia Lucchi et al.  Laminated sediments as proxy of extreme meltwater events: the NW Barents Sea marine record of MWP-1°.
10:15 - 10:30	Michele Petrini et al.  Grounding Line migration and ocean basal melting: competing effects in the simulated retreat of the Storfjorden (Svalbard) ice stream during the last deglaciation.
10:30 - 11:00	Coffee break
11:00 - 11:15	Georgia Grant et al.  Amplitude and frequency of Pliocene (~3.2-2.6 Ma) glacio-eustatic, sea-level fluctuations from a new shallow-marine sediment record, Whanganui Basin, New Zealand.
11:15 - 11:30	Gavin Dunbar et al.  The relative influence of precession and obliquity on Late Pliocene (3.3 - 2.4 Ma) polar ice sheet dynamics and global sea-level change.
11:30 - 11:45	Bas de Boer et al. Orbital driven Late Pliocene climate changes and their relation to ice

Reconstructing and understanding deglacial Antarctic Ice Sheet dynamics - novel insights and implications for future sea-level rise.

volume and relative sea-level change.

11:45 - 12:00 Michael Weber et al.

#### Program

12:00 - 12:15	Xavier Crosta et al.
	Late Holocene sea ice dynamics and potential forcing mechanisms
	in the Indian sector of the Southern Ocean

12:15 - 12:30 Frank Lamy et al.

Atmosphere-ocean changes in the Pacific Southern Ocean over the past Million years and implications for global climate.

12:30 - 12.45 Alastair Graham et al.

Major advance of South Georgia glaciers during the Antarctic Cold
Reversal following extensive sub-Antarctic glaciation.

12:45 - 13:30 Poster session

13:30 - 14:30 *Lunch* 

## THEME 4 Co-evolution of climate and life in the Antarctic & Southern Ocean

#### **SATURNIA ROOM**

Chair: Steven Chown

14:30 - 15:00 Invited Jan Strugnell

Dating Antarctic ice sheet collapse: A molecular approach.

15:00 - 15:30 Invited Pete Covey

Today's Antarctic terrestrial biodiversity - multiple signals of long-term presence and habitat persistence.

15:30 - 16:00 Invited Jane Francis

Use in paleobiology to reconstruct the evolution of Antarctic geography climate and ice sheets.

- 16:00 16:30 Coffee break
- 16:30 16:45 Bridget Lee et al.

  Bioavailable iron in the Southern Ocean.
- 16:45 17:00 James Crampton et al.

Pulsed phytoplankton turnover in the Southern Ocean forced by stepwise Antarctic cooling.

17:00 - 17:15 Ulrich Salzmann et al.

Cenozoic terrestrial climate change and the demise of forests on Wilkes Land, East Antarctica.

Program

17:15 - 17:30 Osamu Seki et al.

Coupling of Southern Ocean climate, dust and CO 2 over the past 10 million years.

17:30 - 17:45 Elie Verleyen et al.

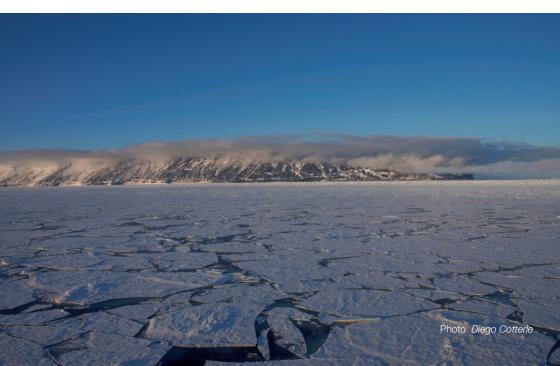
The imprint of Neogene and Quaternary climate filtering on contemporary biogeographic patterns in the Antarctic lacustrine diatom biome.

17:45 - 18:15 Anna Wåhlin (SCAR 2013 visiting professor), Bethan Davis (SCAR fellow 2012) SCAR opportunities for senior and junior scientists

#### SATURNIA ROOM

18:30 - 19:30 **FILM** (20 min)

"Past Antarctic Ice Sheet dynamics: the sound of a community effort" Introduction by Giulia Massolino (OGS, film editor), live music performed by Marco Battigelli (Conservatorio Tartini, Trieste) Invited presentation Peter Barrett "Role of film in science communication" (Language: English)



8:30 - 10:30 Poster Session

Onsite registration opens

## Program

8:00

## Friday September 15th

10:30 - 11:00	Coffee Break
11:00 - 12:00	SATURNIA ROOM
	Plenary discussion on theme 3 and 4 Chair: Steven Chown; Panel: Jane Francis, Andrea Dutton, Julie Brigham-Grette, Peter Convey, Jan Strugnell, Rob DeConto
12:00 - 13:30	Lunch
THEME 5	Emerging research priorities of societal relevance
	SATURNIA ROOM
13:30 - 14:00	Chair: Carlota Escutia Invited Tim Naish et al.
	Antarctica and the Southern Ocean in 2067: what future will we choose
14:00 - 14:30	Invited <i>Anna Whålin</i> Bounds on marine melting of the Antarctic ice sheet - lessons learned and knowledge gaps.
14:30 - 15:00	Invited Valerie Masson-Delmotte IPCC AR6 cycle, and how to contribute
15:00 - 15:30	Invited Chuck Kennicutt Reaching for the Horizon: Advancing Ice Sheet Dynamics Science
15:30 - 16:00	Invited Yeadong Kim The importance of building international partnerships
16:00 - 16:30	Invited Steven Chown Antarctic Engagement to avoid an Order from Strength world
16:30 - 17:00	Coffee break
17:00 - 18:00	Plenary discussion on future directions and priorities for PAIS Chairs: <i>Tim Naish, Laura De Santis</i> ; Panel: <i>Anna Wahlin</i> , <i>Valerie Masson-Delmotte</i> , <i>Chuck Kennicutt</i> , <i>Yeadong Kim</i> , <i>Steven Chown</i> , <i>Rob DeConto</i> , <i>Carlota Escutia</i>

Wrap up, best poster presentation student prizes Closing ceremony

#### **OCEANIA AB ROOM**

18:00 - 19:00 Sabrina Seafloor Survey Post-Cruise Meeting, N°1

Chair: Leanne Armand. closed

WORKSHOP

## Saturday September 16th



SISSA - OGS (Via Beirut - Trieste) **ROOM A** 

8:00 - 13:00 Drilling beneath Antarctica's Ice Shelves. A workshop to discuss science objectives and future drill sites to recover records of past climate and environmental change. Sites that test model-driven hypotheses of ice sheet dynamics will be a focus

Chairs: Richard Levy, Gerhard Kuhn, Tim Naish, open

#### **ROOM B**

8:00 - 13:00 Holocene climate variability off Wilkes Land, East Antarctica and Integrating coastal ice cores with high resolution sediment records

Chairs: Johan Etourneau, Carlota Escutia, Rob McKay, Nancy Bertler, closed



### **Social Program**

Field trip 9th-10th September

Marmolada and Archeological Museum of Alto Adige

Ice breaker 10th September 18.30 - 20.00

Caffè degli Specchi, Piazza dell'Unità d'Italia, Trieste

Social dinner 12th September 18.30

Departure by bus, in front of the conference venue for the social dinner in Ca' Tullio winery and visit to the Basilica of Aquileia, in Romanesque-Gothic style

## Conference side events freely open to the general public

#### Monday Sept. 11<sup>th</sup> 18:00-20:00 Palazzo dei Congressi della Stazione Marittima

Workshop organized by the Association of Polar Early Career Scientists APECS about the use of social media to effectively communicate science to the wider public

Room: Saturnia Language: English

#### Tuesday Sept. 12<sup>th</sup> 9:00-12:00 Palazzo dei Congressi della Stazione Marittima

Educational laboratories for local secondary schools organized by Museo Nazionale dell'Antartide MNA

Rooms: Marconi, Oceania, hall of Vulcania 2, mezzanine Language: Italian

Tuesday Sept. 12th 17:00-18:00 Palazzo dei Congressi della Stazione Marittima

"Meet the scientist Prof. Peter Barrett". Prof. Peter Barret (ARC-Univ. of Victoria, Wellington, NZ) shows and comments on film "Thin Ice: the inside story of climate science"

Moderator: Dr. Giuliano Brancolini (OGS, Italy) Room: Oceania Language: English

### Wednesday Sept. 13<sup>rd</sup> 18:00-20:00 Palazzo dei Congressi della Stazione Marittima

Film "Ice and the Sky" (1.3 hours), it is followed by a short tales about *Claude Lorius* and comments on his contribution to Antarctic science, by *Prof. Carlo Alberto Ricci* (MNA and Univ. of Siena, Italy) and *Prof. Peter Barrett* (ARC-UVW, NZ), *Barbara Stenni* (Univ. of Venice, Italy)

Room: Saturnia Language: English

### Thursday Sept. 14th 9:00-12:00 Teatro Miela, Trieste

High schools seminars "Sea floor scientific drilling, polar ice sheet history and global sea level change", and film "Challenger Sails South" (1975, 22')

Organized by Museo Nazionale dell'Antartide MNA Language: Italian, English

#### Thursday 14th Sept. 18:30-19:30 Palazzo dei Congressi della Stazione Marittima

FILM (20') "Past Antarctic Ice Sheet dynamics: the sound of a community effort". Introduction by *Giulia Massolino* (OGS, film editor), live music performed by *Marco Battigelli* (Conservatorio Tartini, Trieste) Invited presentation *Peter Barrett* "Role of film in science communication"

Room: Saturnia Language: English

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## **Antarctic Research Centre**

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