

Integrated Earth 2023

An Elizabeth & Frederick White Conference

12-13 September 2023

Program

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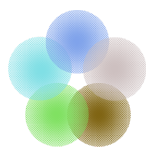


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Ecosystem Research Infrastructure

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Day 1

Tuesday 12 September 2023

Shine Dome, Canberra & Online (AEST)

Registration

Coffee & tea

08:30 - 09:00

Acknowledgement of Country

Opening remarks

Professor Malcolm Sambridge FAA, Vice President of the Academy of Science

09:00 - 09:10

Setting the scene for the conference: Why we are here and the end goal to collaboratively develop a whitepaper on the future national infrastructure needs for cross-sphere research

Moderator: Steve Hill, Geoscience Australia

09:10 - 09:20

[Aspirational science goals for Integrated Earth](#)

Dalia Kirschbaum, NASA Goddard Space Flight Centre

09:20 - 09:55

[Indigenous perspectives on Integrated Earth](#)

Jim Walker, University of Queensland

09:55 - 10:30

Morning tea

10.30 - 10.55

Integration - Geosphere

[Integration between Geosphere and other spheres](#) (15 mins)

Dietmar Muller, University of Sydney

[ECR presentation on Geosphere priorities](#) (10 mins)

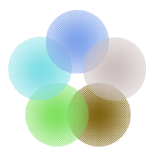
Sara Polanco, University of Sydney

Voon Hui Lai, Australian National University

10.55 - 11.55

[Integrative panel discussion and open mic](#) (35 mins)

Helen Degeling, Cobalt Blue Holdings



Day 1

Tuesday 12 September 2023

Shine Dome, Canberra & Online (AEST)

Integration - Biosphere

[Integration between Biosphere and other spheres](#) (15 mins)

Professor Hugh Possingham, University of Queensland

[ECR presentation on Biosphere priorities](#) (10 mins)

Sam Provost, Australian National University

11:55 - 12:55

[Integrative panel and open mic](#) (35 mins)

Donald Hobern, Atlas of Living Australia

Lunch

12:55 - 13:50

Integration - Hydrosphere

[Integration between Hydrosphere and other spheres](#) (15 mins)

Elizabeth Shadwick, CSIRO

[ECR presentation on Hydrosphere priorities](#) (10 mins)

Jemma Purandare, Griffith University

13:50 - 14:50

[Integrative panel discussion & open mic](#) (35 mins)

A/Prof. Daniel Ierodiaconou, Deakin University

A/Prof. Nicole Jones, University of Western Australia

Afternoon tea

14:50 - 15:15

Integration - Cryosphere

[Integration between Cryosphere and other spheres](#) (15 mins)

David Gwyther, University of Queensland

[ECR presentation on Cryosphere priorities](#) (10 mins)

Jonathan Mettes, Geoscience Australia

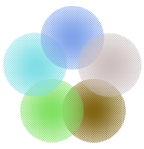
Kimberlee Baldry, Geoscience Australia

Hannes Hollmann, National Computational Infrastructure

15:15 - 16:15

[Integrative panel discussion & open mic](#) (35 mins)

Chen Zhao, University of Tasmania



Day 1

Tuesday 12 September 2023

Shine Dome, Canberra & Online (AEST)

Integration - Atmosphere

[Integration between Atmosphere and other spheres](#) (15 mins)

Lisa Alexander, University of New South Wales

[ECR presentation on Atmosphere priorities](#) (10 mins)

Emma Howard, Bureau of Meteorology

16:15- 17:15

[Integrative panel discussion & open mic](#) (35 mins)

Charmaine Franklin, Bureau of Meteorology

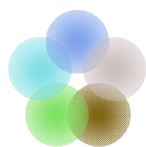
Close of day and plan for day 2

17:15- 17:30

Reception

Networking opportunities

17:30 - 19:30



Day 2

Wednesday 13 September 2023

Shine Dome, Canberra & Online (AEST)

Coffee and tea

08:30 - 09:00

Recap of day 1 and focus of day 2

Moderator: Steve Hill, Geoscience Australia

09:00 - 09:10

[Internationally integrating data for all spheres](#)

Simon Hodson, Executive Director, CODATA

09:10- 09:45

[Integration and protection of Indigenous knowledges and science through Indigenous data sovereignty](#)

Cassandra Price, Indigenous Science and Engagement Program, Office of the Chief Scientist, CSIRO

09:45 - 10:20

Morning tea

10:20 - 10:45

[Perspectives on data in science from the Australian Academy of Science](#)

Lauren Sullivan, Academy of Science

10:45 - 11:05

[Current Australian data infrastructures for the spheres](#)

Each speaker will outline the strengths and weaknesses of their sphere for cross-domain and international integration.

A Google document will be available on the day for participant contributions and will include:

- Australia's key data infrastructures, datasets, compute infrastructures used, emerging needs for the future
- International linkages and equivalent programs
- Key infrastructure pieces that are currently missing

11:05 - 12:05

Siddeswara Guru, TERN

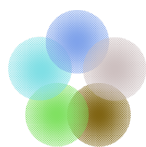
Mark Rehbein, IMOS

Rebecca Farrington, AuScope

Kelsey Druken, ACCESS-NRI

Hamish Holewa, ARDC

Ben Evans, NCI



Day 2

Wednesday 13 September 2023

Shine Dome, Canberra & Online (AEST)

Facilitated discussion: In view of science ambitions

What is missing in Australian data and compute infrastructures?

12:05- 12:25

Moderator: Steve Hill, Geoscience Australia

Lunch

12:25 - 13:25

Cross-sphere thinking

Break out groups to develop the content for a whitepaper on the future national infrastructure needs for cross-sphere research.

13:25 - 14:55

Five groups of mixed spheres each led by a panel member will focus on NCRIS infrastructure including data and information interoperability, identifying gaps, and how to close them.

Afternoon tea

14:55 - 15:15

Combined thinking and prioritisation across all spheres

Moderator: Steve Hill, Geoscience Australia

15:15 - 16:45

Closure: next steps

16:45 - 17:00