

Science Working Groups

Table of contents

1 Geochemical Cycles/Paleogeochemistry.....	2
2 Paleobiology and Biostratigraphy.....	3
2.1 Benthic foraminifera.....	3
2.2 Brachiopods.....	3
2.3 Calcareous Nannoplankton.....	3
2.4 Cephalopods.....	3
2.5 Conodonts.....	3
2.6 Diatoms.....	4
2.7 Fusulinids.....	4
2.8 Mesozoic Planktonic Foraminifera.....	4
2.9 Radiolarians.....	5
2.10 Vertebrates.....	5
3 PaleoGeography.....	5
3.1 Participants.....	5

Domain scientists are directly involved in the development of CHRONOS, the community-based data network for Earth history. The role of the science working groups is one of collaboration with CHRONOS IT team and specifically to: (1) help design and review specific aspects of database schemas, metadata categories, and visualization and computational tools; (2) serve as experts to answer queries from IT specialists; and (3) enlist community support for populating and using CHRONOS. If you would like to share your expertise and contribute to CHRONOS, please contact directly the appropriate discipline coordinators listed below or [Cinzia Cervato](#).

1. Geochemical Cycles/Paleochemochemistry

Coordinators: Ethan Grossman, Texas A and M University, and John McArthur, University College London

Organization Scheme		
Material	System	Participants
1. Whole sediment and sedimentary rock	C, N, O, S and Sr isotopes	Michael Joachimski , Rob Ripperdan , Matt Saltzman , Graham Shields , Tracy Frank
2. Whole sediment and sedimentary rock	Os, He, other[?] isotopes	Bernhard Peucker-Ehrenbrink
3. Carbonate microfossils	B, C, and O isotopes	Jim Zachos , Mimi Katz* , Ellen Thomas
4. Siliceous microfossils	Ge/Si; O and Si isotopes	
5. Carbonate macrofossils	B, C, and O isotopes	Michael Joachimski , Ethan Grossman , Linda Ivany*
6. Microfossils and macrofossils	x/Ca and y/CO ₃	Yair Rosenthal , Bas van de Schootbrugge
7. Microfossils and macrofossils	Heavy isotopes (Ca, Fe, Sr, Pb, etc.)	John McArthur , Isabel Montanez
8. Sulfate minerals and carbonate-associated sulfate	O, S, Sr isotopes; S content	Adina Paytan , Harald Strauss , Tim Lyons
9. Phosphates	O, C, Sr, Nd isotopes, etc.	Debbie Thomas , Michael Joachimski
10. Sedimentary organic matter	H, C, O isotopes, etc.	Kate Freeman , Michael Engel
11. Soil carbonates and oxides	C, O, S, Sr isotopes, etc.	Huiming Bao , Harald Strauss ,

		<u>Claudia Mora</u> , <u>Isabel Montanez</u> , <u>Luis Gonzalez</u>
12.Paleo pCO2	stomatal indices, geochemical models, etc.	<u>Dana Royer*</u> , <u>Isabel Montanez</u>
*Post meeting additions		

2. Paleobiology and Biostratigraphy

Coordinators: Vladimir Davydov, Boise State University; Brian Huber, Smithsonian Institution, and Mark Leckie, University of Massachusetts, Amherst

2.1. Benthic foraminifera

Felix Gradstein	<u>felix.Gradstein@nhm.uio.no</u>	University of Oslo, Natural History Museum
Miriam Katz	<u>mimikatz@rci.rutgers.edu</u>	Rutgers University, Piscataway NJ
Ellen Thomas	<u>ethomas@wesleyan.edu</u>	Wesleyan University

2.2. Brachiopods

Guang Shi	<u>grshi@deakin.edu.au</u>	<u>Deakin University, Australia</u>
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2.3. Calcareous Nannoplankton

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Timothy Bralower	<u>bralower@geosc.psu.edu</u>	Penn State University
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2.4. Cephalopods

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2.5. Conodonts

Charles Henderson	<u>charles-henderson@ucalgary.ca</u>	<u>University of Calgary, Canada</u>
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2.6. Diatoms

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2.7. Fusulinids

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2.8. Mesozoic Planktonic Foraminifera

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Davide Verga		

2.9. Radiolarians

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2.10. Vertebrates

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3. PaleoGeography

Coordinator: Dietmar Mueller, University of Sydney

3.1. Participants

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