

Outline of Program

All four days were constructed the same basic way with a description of the day's plan, presentations by participants, break-out sessions, presentations by rapporteurs of the break out session results, and finally a conclusion and plan for the next day.

Day 1 Program, Saturday, May 11, 2019

Venue	Topic	Duration	From	To
Plenary	Welcome and Intro	0:15	9:00 AM	9:15 AM
Plenary	Participant Introductions	0:35	9:15 AM	9:50 AM
Plenary	Structure what to expect, justification, products	0:15	9:50 AM	10:05 AM
Plenary	Outline of questions in ICDP proposal	0:25	10:05 AM	10:30 AM
Coffee		0:30	10:30 AM	11:00 AM
Plenary	CPCP-1 Highlights and pitfalls: Olsen, Kent ¹ , Geherls ¹ , Mundil ² (Irmis) (see presentations)	1:00	11:00 AM	12:00 PM
Lunch		1:00	12:00 PM	1:00 PM
Plenary	Science problems outline	0:15	1:00 PM	1:15 PM
Breakouts	Science problems/hypotheses for CPCP2/EMCT	0:55	1:15 PM	2:10 PM
Coffee		0:30	2:10 PM	2:40 PM
Breakouts	Science problems/hypotheses for CPCP2/EMCT	0:55	2:40 PM	3:35 PM
Plenary	Presentations of breakout results: problems/hypotheses	0:40	3:35 PM	4:15 PM
Plenary	Discussion	0:35	4:15 PM	4:50 PM
Plenary	Plan for next day	0:10	4:50 PM	5:00 PM

Presentations Day 1 (CPCP-1 Highlights and pitfalls)

Subject	Presenter	From	To
CPCP-1 Highlights and pitfalls: Petrified Forest Cores – Quo Vadis ?	Olsen, P.	11:00 AM	11:15 AM
CPCP-1 Highlights and pitfalls: Magnetochronology of the Chinle Fm. (Norian age) in the CPCP-1 1A core ¹	Kent, D. ¹	11:15 AM	11:30 AM
CPCP-1 Highlights and pitfalls: U-Pb by LA-ICPMS (AZ LaserChron Center)	Gehrels, G. ^{1,3}	11:30 AM	11:45 AM
CPCP-1 Highlights and pitfalls: U-Pb Dating Non-Marine Sedimentary Systems ²	Mundil, R. ² (Irmis, R.)	11:45AM	12:00 AM

¹ Presentation was given remotely.

² Roland Mundil could attend and Randall Irmis gave his presentation.

³ With Giesler, D.

Day 2 Program, Sunday, May 13, 2019

Venue	Topic	Duration	From	To
Plenary	Intro - plan for day	0:10	9:00 AM	9:10 AM
Plenary	AstroMeso: Laskar	0:25	9:10 AM	9:35 AM
Plenary	Other projects, more CPCP-1 Highlights and pitfalls: Rasmussen, Irmis, Geissman, Zakharova, Kuerschner, Schaller	2:00	9:35 AM	11:35 AM
Plenary	JET, Hesselbo	0:25	11:35 AM	12:00 PM
Lunch		1:00	12:00 PM	1:00 PM
Plenary	Plans for Analytical Techniques and drilling/ logging technology	0:10	1:00 PM	1:10 PM
Breakouts	Proxies, Analytical Techniques and drilling/ logging technology	2:30	1:10 PM	3:40 PM
Plenary	Presentations of breakout results	0:40	3:40 PM	4:20 PM
Plenary	Discussion	0:30	4:20 PM	4:50 PM
Plenary	Plan for next day	0:10	4:50 PM	5:00 PM

Presentations Day 2 (CPCP-1 Highlights and pitfalls and Topical Presentations)

AstroMeso: Astronomical Solutions for the Mesozoic Era	Laskar, J. ⁴	9:10 AM	9:35 AM
CPCP-1 Highlights and pitfalls: U-Pb Geochronology of non-marine Upper Triassic strata of the Colorado Plateau (western North America)	Rasmussen, C. ⁵	9:35 AM	9:50 AM
CPCP-1 Highlights and pitfalls: The Colorado Plateau Coring Project: Recovering a High- Resolution Record of the Triassic Low Latitudes	Irmis, R.	9:50 AM	10:05 AM
CPCP-1 Highlights and pitfalls: Paleomagnetism and Rock Magnetism of the upper Lower (?) to Middle Triassic Moenkopi Formation, PFNP -13-1A and 13-2B	Geissman, J. ⁶	10:05 AM	10:20 AM
CPCP-1 Highlights and pitfalls: Well & core logging applications	Zakharova, N.	10:20 AM	10:35 AM
CPCP-1 Highlights and pitfalls: Palynology and Organic Geochemistry for CPCP-1	Kürschner, W.	11:05 AM	11:20 AM
New constraints on ancient atmospheric pO_2 from soil-carbonate hosted inclusions and.... The rise of North American dinosaurs	Schaller, M. ⁷	11:20 AM	11:40 AM

⁴ With Boulila, S., Galbrun, B., Fenga, A., Gastineau, M., Auclair-Desotour, P., Manche, H., Boule, G., Olsen, P., Zeeden, C., Hilgen, F.

⁵ With Mundil, R., Irmis, R., Giesler, D., Gehrels, G., Olsen, P., Kent, D., Geissman, J., Parker, W.

⁶ With Haque, Z.

⁷ With Pettitt, E., Knobbe, T.

Early Jurassic Earth System and Timescale project (JET): Towards an Integrated stratigraphy for the Early Jurassic based on onshore UK boreholes (Cardigan Bay and Cheshire basins)	Hesselbo, S. ⁸		
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Day 3 Program, Monday, May 14, 2019

Venue	Topic	Duration	From	To
Plenary	Intro - plan for day	0:15	9:00 AM	9:15 AM
Plenary	Other ideas and techniques: Whiteside, Reichgelt	0:30	9:15 AM	9:45 AM
Plenary	JET	0:20	9:45 AM	10:05 AM
Plenary	Other ideas and techniques: Kinney, Lepre, Chang, Ikeda, Hinnov	1:45	10:05 AM	11:50 AM
Lunch		1:00	11:50 AM	12:50 PM
Plenary	Climate Modeling: Sohl	0:15	12:50 PM	1:05 PM
Plenary	Coring sites EMCT High Latitude: Fang, Al-Suwaidi, Irmis	0:55	1:05 PM	2:00 PM
Plenary	LacCore / CSDCO, Noren	0:20	2:00 PM	2:20 PM
coffee		0:30	2:20 PM	2:50 PM
Plenary	Path for proposals and Coring sites	0:10	2:50 PM	3:00 PM
Breakouts	Coring sites EMCT (or also CPCP) / other issues	1:00	3:00 PM	4:00 PM
Plenary	Presentations of breakout results	0:40	4:00 PM	4:40 PM
Plenary	Discussion - flash list of possible proposals for tomorrow	0:30	4:40 PM	5:10 PM
Plenary	Plan for next day	0:10	5:10 PM	5:20 PM
	"Banquet": Rib & Chop House		7:00 PM	10:00 PM

Presentations Day 3 (Topical Presentations related to CPCP2/EMCT).

An Overture to the Anthropocene: Strong Modulation of the Tropical Monsoon by CO ₂ at the Dawn of the Dinosaurs	Whiteside, J. ⁹	9:15 AM	9:30 AM
Palynology and Vegetation of the Chinle Formation	Reichgelt, T.	9:30 AM	9:45 AM
Mochras astrochronology: Towards a High-Precision Early Jurassic Numerical Time Scale.	Ruhl, M. ¹⁰	9:45 AM	10:05 AM
Advances in Spectroscopic Geochemistry	Kinney, S.	10:05 AM	10:20 AM

⁸ With Bjerrum, C., Hinnov, L., Miller, K., Riding, J., Wonik, T., Van de Schootbrugge, B., Belcher, C., Lenton, T., Condon, D., Riding, J., Leng, M., Newton, R., Poulton, S., Little, C., Wignall, P., MacNiocaill, C.

⁹ With Yager, J., Palmer, M., Irmis, R., Schaller, M., Olsen, P.

¹⁰ With Hesselbo, S., Hinnov, L., Ullmann, C., Al-Suwaidi, A., Jenkyns, H., Xu, W., Storm, M., Huang, C., MacNiocaill, C., Riding, J., *et al.*

Hematite in Late Triassic paleosols of the Chinle Formation, Colorado Plateau	Lepre, C. ¹¹	10:20 AM	10:35 AM
Rafting Processes in Sedimentary Records	Chang, C. ¹²	10:35 AM	10:50 AM
Astronomical, Biogeochemical, and Climate Cycles Insights from the Deep-sea Records	Ikeda, M.	11:20 AM	11:35 AM
Cyclostratigraphy: Time Series Analysis and Modeling	Hinnov, L.	11:35 AM	11:50 AM
Paleoclimate Modeling of the Early Mesozoic With the NASA/GISS ROCKE-3D GCM	Sohl, L. ^{13,14}	12:50 PM	1:05 PM
Junggar Basin	Fang, Y.	1:05 PM	1:25 PM
Where on Earth? The Other Hemisphere	Al-Suwaidi, A. ¹⁵	1:25 PM	1:45 PM
Some Regional Stratigraphic Considerations in Picking CPCP Phase 2 Coring Sites	Irmis, R.	1:45 PM	2:00 PM
Drilling Operations / Fundamental Analyses: LacCore, CSDCO NSF Facilities	Noren, A.	2:00 PM	2:20 PM

Day 4 Program, Tuesday, May 15, 2019

Venue	Topic	Duration	To	From
plenary	Intro - plan for day and plan breakouts discussion	0:10	9:00 AM	9:10 AM
plenary	Outreach, Myrbo	0:20	9:10 AM	9:30 AM
plenary	Charge for breakouts	0:05	9:30 AM	9:35 AM
breakouts	Site and problem breakouts/ coffee	0:50	9:35 AM	10:25 AM
plenary	Presentations of breakout results	0:40	10:25 AM	11:05 AM
plenary	Path for proposals and flash proposals	0:15	11:05 AM	11:20 AM
Breakouts	Proposal Breakouts tied to Science problems/hypotheses	0:50	11:20 AM	12:10 PM
Lunch		0:45	12:10 PM	12:55 PM
Breakouts	Proposal Breakouts tied to Science problems/hypotheses	0:50	12:55 PM	1:45 PM
plenary	Presentations of breakout results	0:40	1:45 PM	2:25 PM
plenary	Conclusion and Charge	0:30	2:25 PM	2:55 PM
SGDS	St. George Dinosaur Discovery Site Museum Visit (led by Andrew Milner)	2:00	3:00 PM	5:00 PM
plenary	Astrochronology "mini-short-course": Hinnov, L.	2:30	5:30 PM	8:00 PM

¹¹ With Kent D., Olsen P., and the CPCP Science Team

¹² With Fang, Y., Kinney, S., Olsen, P.

¹³ With Chandler, M.

¹⁴ Presentation was given remotely.

¹⁵ With Ruhl, M., Mercer, C., Jenkins, H., Storm, M., et al.

Presentations Day 4 (Topical Presentations related to CPCP2/EMCT).

Building Better Broader Impacts for Drilling Projects	Myrbo, A.	9:10 AM	9:30 AM
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