

2017 GL/DTM Poster Gathering

May 9, 3pm-6pm, Greenewalt Building, BBR campus

Theme: PUBLISHING

Presenter	Title	Poster #
Shaun Hardy	Open Access at GL, DTM, and LDEO. Who's publishing what - and where?	9

Theme: ASTRO

Presenters	Title	Poster #
Alycia Weinberger	MagNIFIES: A High Resolution Infrared Spectrograph for Magellan	40
Erika Nesvold	Debris Disks: What Astronomical Leftovers Can Tell Us about Exoplanets	18
John Chambers	Steamworlds: Planets Accreting Ice-Rich Pebbles	27
Jonathan Gagné	Giant planet analogs floating in space	24
Maggie Thompson	Studying the evolution of the warm dust encircling BD +20 307 using SOFIA	20
Miki Nakajima	Origin of the Martian moons	34
Serge Dieterich	Markov Chain Monte Carlo Solutions in Astrometry	38
Sharon Wang	A Mystery Told by the Unseen Galaxies	30
Tri Astraatmadja	Distances from parallaxes do not equal $1/\text{parallax}$	15

Theme: MATERIALS

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Ajay K Mishra	Synthesis of higher hydrides at HPHT	7
Hanyu Liu	High superconductivity materials at high pressures	11
Kadek Hemawan	Building microcircuits on diamond anvils	13
Li Zhu	Pathway sampling method via swarm intelligence and graph theory	28
Michael Guerette	The Road to 24	22
Nick Holtgrewe	Pulsed heating of compressed methane	3
Qianqian Wang	Properties modulation of C ₃ N ₄ by P substituting and amorphization	17
Qin Zou	Transformation Pathways of Onion Carbon into Ultrahard Nanotwins-Diamond under Pressure	26
Seth Wagner and Vic Lugo	Developments in the GL machine shop	39
Shi Liu	Charged Domain Walls in Hyperferroelectrics	33
Xiaojun Hu	Material strength of cubic boron nitride under shock	5

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Zack Geballe	High-frequency electronics demo	41

Theme: GEO

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Brad Peters	An elevated ¹⁴² Nd signature in the Réunion mantle source	10
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Daniel Eldridge	What About Bisulfite?	1
Doug Rumble	Methane Doubly-Substituted Isotopologues	14
George Cody	Mysterious relationship between dissolved water and silicate melt structure	25
Hélène Le Mével	Holocene deformation of the Laguna del Maule volcanic field in Chile and comparison to the current episode of uplift recorded by geodesy	23
Jesse Reimink	Using discordant data: a new approach with applications	37
Jianjiang Zhu and Ye Wu	Visualize hydrothermal experiments	TV
Jonathan Tucker	How carbon-rich is the Hawaiian plume?	29
Kei Shimizu	CO ₂ content in Earth's upper mantle: effect of plagioclase on the CO ₂ /Ba ratios in ultra depleted MORB	8
Lara Wagner	Not so stable after all: Ongoing tectonism in the southeastern United States	35
Megan Duncan	Experimental constraints on metal percolation through silicate: Implications for core formation on asteroids and planetesimals	4
Mike Ackerson	Reimagining the Role of the Wet Solidus	12
Myriam Telus	Fluid evolution in early planetesimals: Clues from CM chondrites	21
Renbiao Tao	Formation of diamond by redox reaction between recycled carbonate and mantle rocks	6
Robert Hazen, Craig Schiffries, Andrea Mangum, Jennifer Mays, Michelle Hoon-Starr	The Deep Carbon Observatory: A ten-year quest to study carbon in Earth	2
Steve Elardo	MoonRise: A South-Pole Aitken Basin Sample Return Mission	32
Steve Shirey	Superdeep diamonds with metal inclusions: confirmation of an ancient, reduced, recycled C reservoir in the mantle transition zone	36
Zhixue Du	Generation of Earth's magnetic field early on	16