

INTERNATIONAL DIAMOND SCHOOL 2023

Bressanone-Brixen (Italy)
20 February – 25 February 2023

Program



KEYNOTE SPEAKERS:

Ross Angel, John Armstrong, Sonja Aulbach, Ulrika D'Haenens-Johansson, Yana Fedortchouk, Jeff Harris, Dorrit Jacob, Fabrizio Nestola, Paolo Nimis, Graham Pearson, Steve Shirey, Karen Smit, Evan Smith, Thomas Stachel, Suzette Timmerman, Mike Walter, Yaakov Weiss

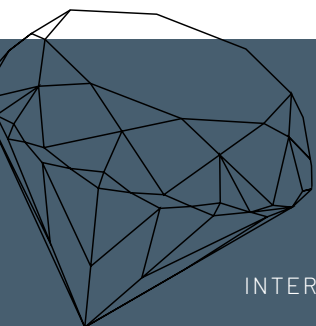
INTERNATIONAL DIAMOND SCHOOL 2023



Bressanone-Brixen (Italy)
20 February – 25 February 2023

Monday, 20th February

TIME	TITLE	SPEAKER
14.30	Introduction and technical information about the school	The organizers
14.45	Introduction to lithospheric and sublithospheric diamond geology	Steve Shirey
15.15	Cratons and diamonds	Graham Pearson
16.00 Coffee break at Hotel Elephant		
17.00	Morphology of monocrystalline diamond and its inclusions	Yana Fedortchouk
17.40	Lithospheric diamonds I: peridotitic substrates	Thomas Stachel
18.20	Lithospheric diamonds II: eclogitic and pyroxenitic substrates	Sonja Aulbach
20.00 Dinner at Hotel Elephant		



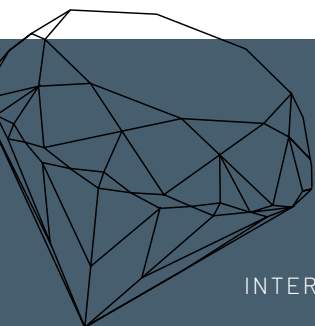
INTERNATIONAL DIAMOND SCHOOL 2023



Bressanone-Brixen (Italy)
20 February – 25 February 2023

Tuesday, 21st February

TIME	TITLE	SPEAKER
8.30	Fluid inclusions in fibrous diamonds	Yaakov Weiss
9.10	Geochemistry of silicate and oxide inclusions in sublithospheric diamonds	Mike Walter
9.50	Geochronology of diamonds	Karen Smit
10.30 Coffee break at Hotel Elephant		
11.15	Latest advances in geochronology of diamonds: dating fibrous diamond and superdeep diamond formation	Suzette Timmerman
11.55	Stable isotope geochemistry of diamonds	Thomas Stachel
13.00 Lunch at Hotel Elephant		



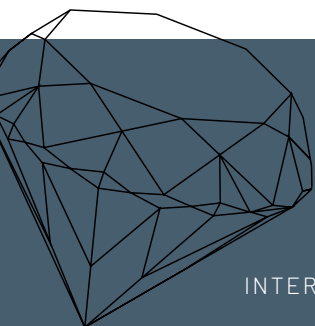
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Tuesday, 21st February

TIME	TITLE	SPEAKER
14.30	Polycrystalline diamonds from kimberlites: snapshots of rapid and episodic diamond formation in the lithospheric mantle	Dorrit Jacob
15.50 Coffee break at Hotel Elephant		
16.40	Raman identification of inclusions in diamonds	Evan Smith
17.20	Point defects and what they can tell us about natural and synthetic diamonds	Ulrika D'Haenens-Johansson
18.00	The wanderings of a diamond geologist – the diamonds of SE Asia	Jeff Harris
20.00 Dinner at Hotel Elephant		







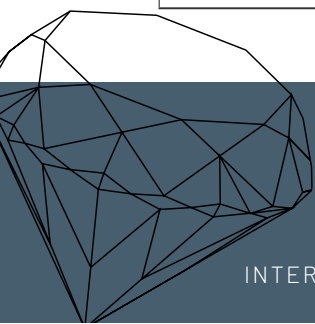
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Bressanone-Brixen (Italy)
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Wednesday, 22nd February

TIME	TITLE	SPEAKER
8.30	Pressure and temperature data for diamonds	Paolo Nimis
PRACTICAL SESSION		
9.15-10.45	PRACTICAL SESSION 1 (sponsored by Zeiss)  Observation of mineral inclusions in diamonds with optical microscopes	Jeff Harris, Suzette Timmerman
9.15-10.45	PRACTICAL SESSION 2 (sponsored by Mineralogy Lab, University of Pavia)  How to interpret inclusion data from EBSD and X-ray diffraction	Ross J. Angel
9.15-10.45	PRACTICAL SESSION 3 (sponsored by Witec)  Micro-Raman spectroscopy	Jan Toporsky, Evan Smith
9.15-10.45	PRACTICAL SESSION 4 (sponsored by Bruker)  FTIR practical methods	Diego Sali, Karen Smit
10.45 Coffee break at Hotel Elephant		



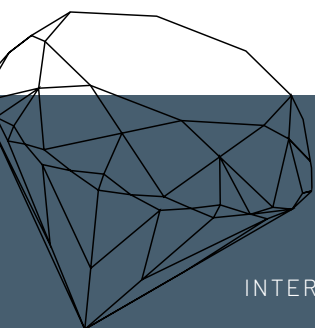
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13.15 Lunch at Hotel Elephant		




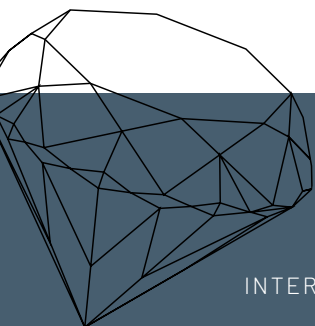
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16.30 Coffee break at Hotel Elephant		







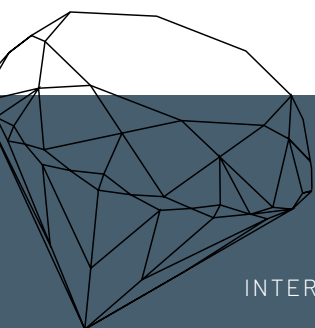
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Wednesday, 22nd February

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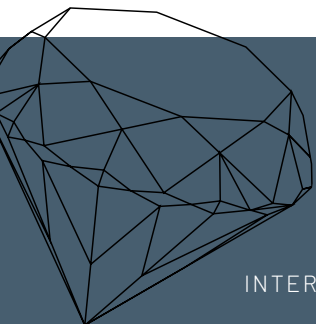
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Bressanone-Brixen (Italy)
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Thursday, 23rd February

TIME	TITLE	SPEAKER
9.00	Modal (-metasomatic) garnet + clinopyroxene in depleted peridotite results from HDF interactions	Herman Grutter
9.25	Dynamical properties of diamond from ab initio simulations	Razvan Caracas
9.50	Deciphering the origin of natural diamond inclusions through laboratory synthesis of diamond inclusions	Yingwei Fei
10.15	Diamond preservation in the lithospheric mantle recorded by olivine in kimberlites	Andrea Giuliani
10.40 Coffee break at Hotel Elephant		
11.25	Insights into the behaviour of eclogitic components from in-situ XRD, ultrasonic interferometry and synchrotron Mössbauer spectroscopy	Anja Rosenthal



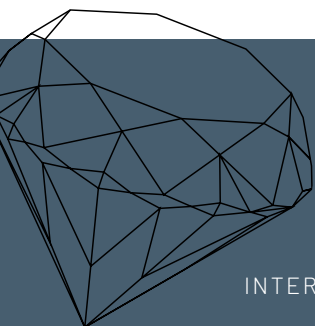
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Thursday, 23rd February

TIME	TITLE	SPEAKER
11.50	Sources of ferropericlases in sublithospheric diamonds: evidence from Fe isotopes	Peng Ni
12.15	Small-scale processes that affect diamond formation and distribution	Maya Kopylova
12.40	Exploring the oxidation state of the mantle through inclusions in diamonds	Kate Kiseeva
13.30 Lunch at Hotel Elephant		
Thursday afternoon is free		
20.00 Dinner at Hotel Elephant		



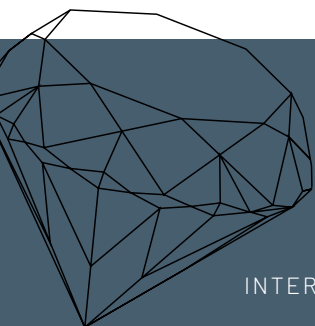
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Bressanone-Brixen (Italy)
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Friday, 24th February

TIME	TITLE	SPEAKER
9.00	Water in nominally anhydrous minerals (PART I)	Nathalie Bolfan-Casanova
9.25	Water in nominally anhydrous mineral inclusions in diamonds (PART II)	Davide Novella
9.50	Diamond formation beneath the Coromandel area, SW São Francisco Craton, Brazil	Luisa de Carvalho
10.15	Alluvial diamonds of the Urals: internal structure and spectroscopic features	Igor Klepikov
10.30 Coffee break at Hotel Elephant		
11.15	The hydrogen content in natural diamonds	Hélène Bureau
11.40	In-situ U-Pb MC-LA-ICP-MS dating of garnet inclusions in diamonds from Venetia, SA	Brendan Colin Hoare



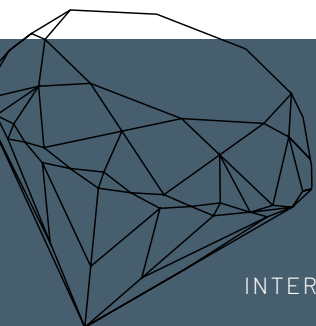
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TIME	TITLE	SPEAKER
11.55	Hydrogen diffusion in diamond: contrasting perspectives between geology and CVD plasma annealing	Michael Jollands
12.10	The effect of crustal xenolith assimilation on host kimberlite classification	Amy Mailey
12.25	Age of super deep diamonds from the D027 kimberlite, Slave craton	Qiwei Zhang
12.40	Mesoarchean diamonds from Manitoba	Andrea Pezzera
12.55	Iron oxidation state in mineral inclusions from Siberian E-type diamonds: Implications for the redox state of Archean oceanic crust and diamond formation	Giulia Marras
13.20 Lunch at Hotel Elephant		



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TIME	TITLE	SPEAKER
14.40	How old are diamonds beneath Proterozoic cratonic basement? Answers from the State Line District, western Laurentia	Melissa Bowerman
14.55	An overview on diamonds from Canada	Andrea Curtolo
15.10	Extraterrestrial diamonds	Anna Barbaro
15.25	Karowe Diamond mine: mining the world's largest diamonds	John Armstrong
16.00 Coffee break at Hotel Elephant		
16.45	Elastic geobarometry and composition of ferropericlase: the most abundant inclusion in super-deep diamonds	Fabrizio Nestola
17.15	Concluding remarks and END of the school	The organizers
20.00 Dinner at Hotel Elephant		

