

IGC 2017 Programme

8 - 11 October 2017	Pre-conference tour
11 – 15 October 2017	Conference, Safari Hotels, Windhoek
16 – 19 October 2017	Post-conference tour

Conference Programme

Windhoek, Namibia 11 – 15 October 2017

Wednesday 11 October 2017

18.00	Registration at Safari Court Hotel
18.00 - 20.30	Welcome Reception at Safari Court Hotel – Pool Area
20.30	Dinner (individually)
20.30 - 21.30	Executive Committee (EXECO) Meeting, Flamingo Room No. 2, Safari Hotel

Thursday 12 October 2017

9.00 – 10.00	Registration, Namib Room 1, Safari Hotel
10.00 - 10.45	Opening Ceremony, Namib Room 1, Safari Hotel
10.45 - 11.15	Coffee Break

Sessions at Namib Room 1, Safari Hotel

Session 1	Invited lectures – Chairman: Henry A. Hänni
11.15 – 12.00	<u>Gabi Schneider:</u> The history of diamond mining in Namibia
12.00 – 12.30	<u>Andreas Palfi:</u> Colour and ornamental stones of Namibia
12.30 - 14.00	Lunch at Welwitschia Restaurant, Safari Hotel

Session 2	Gemstones of Namibia and South Africa – Chairlady: Jayshree Panjekar
14.00 - 14.20	<u>Ulrich Henn</u> , Tom Stephan, Thomas Lind, Fabian Schmitz: A gemmological study on tourmaline from the Karibib and Usakos Region, Namibia
14.20 – 14.40	<u>Edward W. Boehm</u> : Spessartine garnets from Namibia: Geology, gemology, market
14.40 – 15.00	<u>Harmony K. Musiyarira</u> , Ditend Tesh, Mallikarjun Pillalamarry, Nikowa Namate: Growth strategy for the Namibian jewellery industry and coloured gemstone value chain
15.00 – 15.20	<u>Brendan M. Laurs</u> : Recent mining of some alluvial diamond deposits in South Africa
15.20 – 15.50	Coffee Break
15.50	Poster Session
19.00 – 21.00	Buffet Dinner at Acacia Restaurant, Safari Court Hotel

Friday 13 October 2017

8.00 – 8.45	Executive Committee (EXECO) Meeting, Flamingo Room No. 2, Safari Hotel
Session 3	Corundum – Chairman: Karl Schmetzer
9.00 – 9.20	<u>Terrence Coldham</u> : An examination of the morphology of grains of crystalline corundum from Lava Plains Northern Queensland; A rare example of an “in situ” pyroclastic sapphire deposit
9.20 – 9.40	Franck Notari, <u>Emmanuel Fritsch</u> , Candice Caplan, Thomas Hainschwang: Are boehmite needles in corundum Rose channels?
9.40 – 10.00	<u>Shane F. McClure</u> : Sapphire mining in Montana
10.00 – 10.20	<u>W. Atichat</u> , J. Jakkawanvibul, M. Maneekrajangsaeng, T. Sripoonjan, T. Leelawatanasuk, V. Pisutha-Arnond, N. Narudeesombat, P. Chanthayod, B. Sriprasert: Padparadscha color grading for gem trade

10.20 – 11.10	Coffee Break
Session 4	Diamond – Chairman: Emmanuel Fritsch
11.10 – 11.30	<u>Hiroshi Kitawaki</u> , Kentaro Emori, Mio Hisanaga, Masahiro Yamamoto: Two kinds of synthetic diamonds having features similar to natural diamonds
11.30 – 11.50	<u>R. Serov</u> , Y. Shelementiev, A. Serova: Hybrid diamonds: Natural diamonds overgrown with CVD synthetic
11.50 – 12.10	<u>Rainer Schultz-Güttler</u> : Skins, stains, spots and ruts: Green diamonds from Brazil
12.10 – 12.30	Andy H. Shen, <u>Tay Thye Sun</u> , Ye Luo, J.T. van Gorsel, Mega Rosana Fatimah, Tay Kunming, Wilyanto Deng: Kalimantan diamonds from Landak: Gemmological characteristics, FTIR and photoluminescence spectroscopy
12.30 - 14.00	Lunch at Welwitschia Restaurant, Safari Hotel
14.00 - 17.00	Poster Session
	Exhibition and sale of Namibian minerals and gemstones by small-scale miners, gemstone auction, Namibian jewellery exhibition Organized by Industry Growth Strategy (IGS) for the Gemstone and Jewellery Industry of Namibia
18.30 – 22.00	Dinner at Joe`s Beerhouse, Windhoek

Saturday 14 October 2017

Session 5	Spinel, Tourmaline, Garnet – Chairman: Gamini Zoysa
9.00 – 9.20	<u>Jayshree Panjekar</u> , Aatish Panjekar: Study and investigation of spinel from Kermunda in Odisha, India
9.20 – 9.40	Cheng-Si Wang, <u>Andy H. Shen</u> : Reversibility of photoluminescence spectra of spinel with heat treatment
9.40 – 10.00	<u>Claudio C. Milisenda</u> , Stefan Müller: REE photoluminescence in Paraiba type tourmaline from Mozambique
10.00 – 10.20	<u>Karl Schmetzer</u> , H. Albert Gilg, Ulrich Schüssler, Jayshree Panjekar: Origin determination of garnets: search for historical trade routes
10.20 – 11.10	Coffee Break

Session 6	Corundum – Chairlady: Willow Wight
11.10 – 11.30	<u>J.C. (Hanco) Zwaan</u> , Leo M. Kriegsman, Jorien L.N. van der Wal, Richard J.M. Taylor, E. Gamini Zoysa: Characterization and formation of ‘metamorphic’ sapphires – examples from Sri Lanka
11.30 – 11.50	<u>E. Zoysa Gamini</u> , Liu Shang I, Edward, Arūnas Kleišmantas: Preliminary report on new corundum deposits of Sri Lanka
11.50 – 12.10	<u>Sutas Singbamroong</u> , Aisha Rashid Almazrooei, Nazar Ahmed: Lead glass-filled padparadscha
12.10 – 12.30	<u>Seung Kwon Lee</u> , Kiran Kwon: Raman study for heat-treated sapphires based on the structural relaxation by impurities and thermal energy
12.30 - 14.00	Lunch at Welwitschia Restaurant, Safari Hotel
Session 7	Investigation Techniques – Chairman: Hanco Zwaan
14.00 – 14.20	Michael. S. Krzemnicki, Hao A. O. Wang, <u>Walter A. Balmer</u> , Jean-Pierre Chalain, Pierre Lefèvre, Wei Zhou, and Laurent Cartier, Henry A. Hänni: GemTOF: A new and highly versatile method to analyse trace elements and isotopes of gemstones and pearls
14.20 – 14.40	<u>Kentaro Emori</u> , Hiroshi Kitawaki: Identification of natural and synthetic amethyst using multivariate analysis
14.40 – 15.00	<u>Masaki Furuya</u> : The efficiency and limitation of the phosphorescence imaging for screening current melee sized synthetic diamonds
15.00 – 15.20	<u>Bahareh Shirdam</u> , Soheila Aslani: Origin determination of Iran excellent-quality turquoise based on trace element analysis using ICP-MS and Micro XRF
15.20 – 15.50	Coffee Break
15.50	Poster Session
19.00 – 22.00	Gala Dinner at Omatako Room 2, Safari Court Conference Centre

Sunday 15 October 2017

- Session 8 **Pearls and Amber** – Chairman: Tay Thye Sun
- 9.00 – 9.20 Nick Sturman, Areeya Manustrong, Kwanruen Lawanwong, Promlikit Kessrapong, Nanthaporn Somsa-ard, Artitaya Homkrajae:
“Golden” *Pinctada maxima* non-bead cultured pearls with an emphasis on their internal structures
- 9.20 – 9.40 Stefanos Karampelas, Abeer Tawfeeq Al-Alawi, Ali Al-Attawi, Kenneth Scarratt:
Natural pearls found from *Pinctada radiata* in the Kingdom of Bahrain: Characteristic structures, comparison and identification
- 9.40 – 10.00 Elisabeth Strack:
Past and present situation of freshwater pearls from North Western Russia
- 10.00 – 10.20 Liu Shang I, Edward:
Feather and insect inclusions in Burmese amber and its impact on origin determination
- 10.20 – 10.50 Coffee Break
- Session 9 **Miscellaneous** – Chairman: John Saul
- 11.10 – 11.30 Willow Wight:
Ammolite, Canada’s unique fossil gemstone
- 11.30 – 11.50 Anette Juul-Nielsen, Arent Heilmann:
A gemstone occurrence map for Greenland
- 11.50 – 12.10 Stephen Kennedy, Jens Najorka:
Imitations of Tianhuang and Shoushan stones
- 12.10 – 12.30 Çiğdem Lüle:
Gemological terminology issues: An ongoing battle...
- 12.30 - 14.00 Lunch at Welwitschia Restaurant, Safari Hotel
- Session 10 **Beryl, Cordierite, Jade** – Chairman: Ulrich Henn
- 14.00 – 14.20 Klaus Schollenbruch, Lore Kiefert, Klemens Link, Tewodros Sintayehu:
Gem quality emeralds from Ethiopia
- 14.20 – 14.40 Karen E. Fox, Chris Yakymchuk:
Canadian gem-grade cordierite

14.40 – 15.00	<u>Ahmadjan Abduriyim</u> , Kazuko Saruwatari, Yusuke Katsurada: Jadeite jade from Japan: Its history, gemmology and comparison with jadeite from other sources
15.00 – 15.40	Coffee Break
15.40 – 16.40	Closing Ceremony, Namib Room 1, Safari Hotel
19.00 – 21.00	Buffet Dinner at Acacia Restaurant, Safari Court Hotel

Posters

Daniel Barchewitz:

GemRam for simple gem ID

Laurent E. Cartier, Michael S. Krzemnicki, H.A.O. Wang, Henry A. Hänni:
Traceability of gemstones: challenges and opportunities

Gagan Choudhary:

AquapraseTM: An interesting green-blue variety of chalcedony

Henry A. Hänni, Leander Franz, Zhou Wie:

Sannan-Skarn: a new ornamental gemstone from Pakistan

Arūnas Kleišmantas, Gamini E. Zoysa, Edward Liu Shang I:

Chemistry and gemmological features of spinels from Sri Lanka and Vietnam

Michael Krzemnicki, Hao A. O. Wang, Tom Stephan, Ulrich Henn:
Cobalt diffusion-treated spinel

Leander Franz, Michael Krzemnicki, Kristina Ernst, Christian de Capitani, George E. Harlow,
Nicolai Kouznetsov:

Kosmochlor-bearing jadeite rocks from Kenterlau-Itmurundy (Lake Balkhash, Kazakhstan)

Thanong Leelawatasuk, Tasnara Sripoojan, Namrawee Susawee, Pornsawat Wathanakul,
Visut Pisutha-Arnond:

Rare fancy sapphires from Bo Phloi Gem Field, Kanchanaburi, Western Thailand

Thanapong Lhuaamporn, Saengthip Saengbuangamlam, Nataya Nilhud, Thanong
Leelawatanasuk:

Characteristics of exceptionally gem-quality untreated blue sapphires from Bo-Phloi
gemfield, Kanchanaburi-Thailand

John M. Saul:

Transparent gemstones and the most recent supercontinent cycle

Andy H. Shen, Cuihong Liu, Tian Shao, Min Ye
Color origin of color-changing diaspora from Turkey

Jian Mao, Elizabeth Su
Research of jadeite inclusions: graphite and zircon

Panjawan Thanasuthipitak, Kanyarat Kwansirikul, Weerapan Srichan, Phisit Limtrakun, Opor
Saidum and Theerapongs Thanasuthipitak:
Gem materials from upper Northern Thailand: potential in jewellery