



## IGC 2015 Programme

23–25/08	Pre-conference tour "Feel Lithuania"
26–30/08	Conference, Central Building, Vilnius University
26–29/08	Guest programme
31/08 – 3/09	Post conference tour "Towards Amber Road"

## Conference Programme

Vilnius, Lithuania 26–30 August 2015

### Wednesday 26 August

14.00–16.00	Excursion to Amber Museum Gallery and Church Heritage Museum
17.30	Registration at the Narutis Hotel (Columns Hall)
18.00–20.30	Ice Breaking Welcome Reception at the Narutis Hotel (Columns Hall)
20.30–21.30	Executive Committee (EXECO) Meeting

### Thursday 27 August

8.30–9.00	Registration at the Small Aula, Central Building, Vilnius University
9.00–9.45	Opening ceremony at the Small Aula, Central Building, Vilnius University
9.45–10.30	Coffee break ( faculty of Philology, next to Krėvė hall )
10.00–10.30	<b>Press briefing (Small Aula hall)</b>

#### Amber/Diamonds

Session at the Donelaitis Hall, Faculty of Philology, Vilnius University

#### Chairperson Dr. Ulrich Henn

10.30–10.50	Sigitas Podėnas: Crane flies (Diptera, Tipuloidea) from Baltic amber
10.50–11.10	Albertas Bitinas: Amber in the Southeast Baltic Sea region: Geological aspect
11.10–11.30	Jonas Satkūnas: Perspectives of amber production in Lithuania
11.30–11.50	Coffee break



### **Chairperson Dr. Henry Haenni**

- 11.50–12.10 Willow Wight: Canadian Amber—History and significance to science  
12.10–12.30 Lore Kiefert: Natural green amber from Ethiopia  
12.30–12.50 Tay Thye Sun, Arunas Kleismantas, Thet Tin Nyunt, Zheng Minrui, Murali Krishnaswamy, Loke Hui Ying: Burmese amber from Hti Lin  
12.50–14.00 Lunch

### **Chairperson Dr. Emmanuel Fritsch**

- 14.00–14.20 Thomas Hainschwang, Franck Notari, Emmanuel Fritsch: Natural "lonsdaleite and CO<sub>2</sub> rich" diamonds  
14.20–14.40 Hiroshi Kitawaki, Mio Hisanaga, Masahiro Yamamoto, Kentaro Emori: Type Ib yellow to brownish yellow CVD synthetic diamond  
14.40–15.00 Joe C.C. Yuan: Identification and influence to the future market of synthetic diamond  
15.00–16.00 Poster session (see below)  
16.00–16.20 Coffee break  
16.20 Conference day closes  
16.30–18.00 Excursion to Palace of the Grand Dukes of Lithuania  
19.30 Transfer to Belmontas park  
20.00–22.00 Dinner at Belmontas restaurant

## **Friday 28 August**

### **Coloured Stones/Testing Techniques Corundum natural, treated**

Session at the Donelaitis Hall, Faculty of Philology, Vilnius University

- 8.00–8.45 Executive Committee meeting

### **Chairperson Dr. Dietmar Schwarz**

- 9.00–9.20 Anette Juul-Nielsen: Small scale mining of rubies and pink sapphires at Fiskenaasset, Greenland  
9.20–9.40 Jayshree Panjekar, Aatish Panjekar: Investigation into the asterism observed in the star ruby from Neriya, Karnataka, India  
9.40–10.00 Kentaro Emori, Hiroshi Kitawaki: Geographic origin determination of ruby and blue sapphire based on trace element analysis using LA-ICP-MS and 3D-plot  
10.00–10.20 Emilie Elmaleh, Stefanos Karampelas, Susanne Theodora Schmidt, Federico Galster: Zircon inclusions in blue sapphires  
10.20–10.40 Coffee break



**Chairperson Mr. Tay Thye Sun**

- 10.40–11.00 J.C. (Hanco) Zwaan, Eric Buter, Regina Mertz-Kraus, Robert E. Kane: Alluvial sapphires from Montana – Inclusions, geochemistry and indications for a metasomatic origin
- 11.00–11.20 E. Gamini, G. Zoysa: Sapphire deposits of Sri Lanka
- 11.20–11.40 K. Schmetzer, M.P. Steinbach, H.A. Gilg, A.R. Blake: Dual-color double stars in corundum and quartz
- 11.40–12.00 Visut Pisutha-Arnond, Chaniya Rochd, Wilawan Atichat, Pornsawat Wathanakul, Nalin Narudeesombat: Role of Be in reduction and oxidation heating of sapphire
- 12.00–13.30 Lunch

**Chairperson Dr. Hanco Zwaan**

- 13.30–13.50 Walter A. Balmer, Michael S. Krzemnicki: Be-detection by FTIR on corundum: A preliminary report
- 13.50–14.10 Thanong Leelawatanasuk, Nalin Naruedeesombat, Namrawee Susawee, Pantaree Lomthong, Pornsawat Wathanakul: "Surface de-leaded" ruby
- 14.10–14.30 Ahmadjan Abduriyim: Residual pressure distribution and visualization of mineral inclusions in corundum: application of photoluminescence spectroscopy in relation to sapphires from New England, New South Wales, Australia
- 14.30–14.50 S.I. Liu, C.M. Ouyang, F.Y. Ng: The application of VPSEM-Raman coupled system in studying Fei Cui
- 14.50–15.50 Poster session (see below)
- 15.50–16.10 Coffee break
- 16.10 Conference day closes
- 17.30 Departure by bus from Vilnius to Trakai
- 18.30 Family picture with all the participants at the Trakai Castle
- 20.00–23.00 Gala dinner at the Trakai Castle

**Saturday 29 August**

**Coloured Stones/Pearls**

Session at the Donelaitis Hall, Faculty of Philology, Vilnius University

**Chairperson Dr. Lore Kiefert**

- 9.00–9.20 Shane F. McClure: Brazilian emeralds from the Belmont mine
- 9.20–9.40 Masaki Furuya, Scott Davies: Gemmological features of pallasitic peridot of six different meteorites
- 9.40–10.00 R. Serov, Y. Shelementiev, A. Serova: Russian demantoid color origin

10.00–10.20 Andy H Shen, Zemin Luo, Mingxing Yang: Country of origin determinations of nephrite jades from East Asia Regions

10.20–10.40 Coffee break

**Chairperson Dr. Jayshree Panjekar**

10.40–11.00 Karen E. Fox: Opal Adventures in the Land of Never Never

11.00–11.20 Emmanuel Fritsch, Peter Megaw, Tyler L. Spano-Franco: Green-luminescing, gem hyalite opal from Zacatecas, Mexico

11.20–11.40 Ulrich Henn, Observations on some rare gem materials

11.40–12.00 Claudio C. Milisenda, Stefan Koch, Stefan Müller, Tom Stephan, Michael Wild: Gemstones with photochromism

12.00–12.20 Dietmar Schwarz: Colored gemstones – Mines and markets

12.20–14.00 Lunch

**Chairperson Dr. Pornsawat Wathanakul**

14.00–14.20 Elisabeth Strack: The present situation of freshwater pearls from Wisconsin

14.20–14.40 Michael S. Krzemnicki, Vincent Revol, Carina Hanser, Laurent Cartier, Henry A. Hänni: X-ray phase contrast and X-ray scattering images of pearls

14.40–15.00 Nicholas Sturman, Artitaya Homkrajae, Areeya Manustrong, Nanthaporn Somsa-ard: X-ray computed microtomography ( $\mu$ -CT) structures of known natural and non-bead cultured *Pinctada maxima* pearls

15.00–15.20 Sutas Singbamroong, Nazar Ahmed, Ayesha Rashid Ahmed, Mohamed Karam, Ghaliah Hassan, Sameera Mohammed, Nahla Al Muhairi: Observations on natural non-nacreous pearls reportedly from *Tridacna* (clam) species

15.20–15.40 Coffee break

15.40 Conference day closes

15.40–16.30 Executive Committee meeting

19.00–21.00 Dinner at the City Hall

## Sunday 30 August

8.00–8.45 Executive Committee meeting

### Testing Techniques

Session at the Donelaitis Hall, Faculty of Philology, Vilnius University

**Chairperson Dr. Karl Schmetzer**

- 9.00–9.20 Lutz Nasdala, Chutimun Chanmuang, Tobias Häger, Wolfgang Hofmeister, Allen K. Kennedy, Peter W. Reiners, Tamás Váczi, John W. Valley, Bhuwadol Wanthanachaisaeng, Wu Fuyuan, Manuela Zeug, E. Gamini Zoysa: The scientific importance of gem zircon as analytical reference materials
- 9.20–9.40 Brendan M. Laurs: Modern mining methods for primary and secondary gem deposits in Mogok, Myanmar
- 9.40–10.00 Manfred Eickhorst: Technical progress report on LED, gemmology and sustainability
- 10.00–10.05 Announcements
- 10.05–10.50 Coffee break
- 10.50–12.00 Conference closing ceremony. Conference ends
- 12.00–14.00 Lunch

### POSTERS

- o Gagan Choudhary: Emeralds from Jharkhand, India: An update
- o Helmut Pristacz, Toshihiro Kogure, Vera M.F. Hammer, Gerald Giester, Manfred Wildner, Eugen Libowitzky, Lutz Nasdala: A review of synthetic turquoise
- o Antonello Donini, Elena Gambini, Emanuela Castaman, Giuliano Radice: Unusual and curious gemological materials in laboratory
- o Emmanuel Fritsch, Joel Ivey: Mustard Jasper or Bumble bee stone
- o John M. Saul: "ELECTRUM": Why was the same word used for amber and also for the naturally occurring alloy of gold and silver?
- o Guanghai Shi, Yan Wang, Wei Shi, Ruihua Wu: Infrared spectral characteristics of ambers from three main sources (Baltic Sea, Dominican Republic and Myanmar) and their implications
- o Elizabeth Su: Jadeite markets in China
- o Thanong Leelawatanasuk, Namrawee Susawee, Marisa Maneekrajangsaeng, Saengthip Saengbuangamlam, Supparat Promwongnan, Nicharee Atsawatanapirom, Pantaree Lomthong, Pornsawat Wathanakul: Treated black sapphire
- o Supparat Promwongnan, Saengthip Saengbuangamlum, Thanong Leelawatanasuk: Synthetic ruby overgrowth on natural corundum