



Gemmological
Research
Industries Inc.



DAY 2: Coloured Diamonds

Identifying of Natural, Treated and Synthetic Diamonds with Standard and Advanced Instruments

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October 10, 2020 (Saturday) at EGM, 460 rue Sainte Catherine Ouest, st. 913, Montréal

9am-12.30pm: IDENTIFICATION of NATURAL and SYNTHETIC DIAMONDS

- **BROWN diamonds:** sources/producers, characteristics and identification
- **YELLOW and ORANGE diamonds:** sources/producers, characteristics, and identification
- **GREEN and CHAMELEON diamonds:** source/producers, characteristics and identification
- **BLUE diamonds:** sources/producers, characteristics and identification
- **PINK/RED diamonds:** sources/producers, characteristics and identification
- **Use of Synthetic Diamond ID Kit** to separate Colored Natural and Synthetic Diamonds

PRACTICAL WORKSHOP: **Microscopy** –inclusions for HPHT and CVD synthetics, **UV lamp** – colours of fluorescence/phosphorescence and **Cross Polarized Filters** (CPF) patterns for synthetic origin.

1.30-5.00pm: IDENTIFICATION of TREATED NATURAL and SYNTHETIC DIAMONDS

- **Clarity and Color Enhancements - unstable** (Fracture Filling and coating),
- **Clarity Enhancements - stable** (Traditional Lasering, KM Laser drilling)
- **Processes for colour treatments** of diamonds, natural and synthetic
- **Color Enhancements - stable** (irradiation, annealing, HPHT, multistep treatments)
- **Post treatments of HPHT-grown and CVD-grown diamonds** (irradiation)
- **Identification methods for treated diamonds** with advanced instruments at labs
- **Grading of Colored diamonds** with Munsell chips, masters using GIA and CGL-GRS system
- **Certification** of treated and synthetic diamonds at gem laboratories

PRACTICAL WORKSHOP: **Coloured Diamonds** are tested with microscopes, mini UV lamps, (PL inspectors), portable polariscopes, Jewellery Inspectors and portable spectrometer (**EXA**) for origin

- **Portable “Synthetic Diamond ID Kit”** (polariscope, lights, PL inspector), **EXA** will be available
- **Certificate of completion** will be issued to all participants

Cost: US\$390 (CDN\$500)

US\$350 (CDN\$450) if taken with 2nd day on Coloured Diamonds, total US \$700 (CDN\$900)

Please pay in **US\$** at www.brankogems.com/shop/product-category/workshops or contact info@brankogems.com or in **CDN\$** contact EGM 1 (514) 844-0024 or mh.corbin@egmtl.com