



## ADVANCED GEMOLOGY - Diamonds (Natural, Treated and Synthetic)

*April 22, 2019*, Boardroom 451, 409 Granville Street

Instructor: Branko Deljanin, B.Sc, GG, FGA, DUG

**MORNING (9.00-12.30pm)**

### Types of natural and synthetic diamonds

- HPHT and CVD method of growing diamonds
- Producers of synthetic diamonds
- Causes of color in synthetic diamonds
- Screening and ID of diamonds for synthetic origin using **SYNTHETIC DIAMOND ID KIT**
  - Using Loupe
  - Using portable UV lamp (PL inspector, see photo)
  - Using portable Polarioscope with light
- Testing of melee and mounted synthetic diamonds
- Post treatments of HPHT-grown and CVD-grown diamonds
- Certification of synthetic diamonds

PRACTICAL WORKSHOP with synthetic diamonds (standard and advanced instruments).

### AFTERNOON (1.30pm-5.00pm)

- **Clarity Treatments** (Fracture Filling, Traditional Lasering, KM Laser Drilling)
- **Color Treatments** (Coating, Irradiation, Annealing, HPHT, Combination Treatments)
- **Testing and Identification Methods for Treated Diamonds** (UV lamp, microscope, UV-VIS-NIR, FTIR and PL spectrometers, Raman, etc)
- **Post treatments of HPHT-grown and CVD-grown diamonds**

PRACTICAL WORKSHOP with treated diamonds (standard and advanced instruments).

Cost: \$400 +gst

To register please contact Robynn Sagert at [robynn@cglgrs.com](mailto:robynn@cglgrs.com) or 604-687-0039

