



**Saturday August 31<sup>st</sup>, 2019**

**Martin Fuller Appraisals in McLean, VA**

**Space is limited – Please email**

**[miles@martinfullerassociates.com](mailto:miles@martinfullerassociates.com) to secure your spot**

**~~\$595~~ \$550 per attendee**

## **Practical Workshop: Screening and ID of Diamonds**

**Instructor:** Branko Deljanin, B.Sc., GG, FGA, DUG (CGL-GRS lab, Canada)

**Audience:** For gemmologists, appraisers, and individuals with trade experience

Morning (9:00 AM to 12:45 PM):

### **ID of Colourless Diamonds (Natural, Treated, and Lab-grown)**

- **Colourless Natural diamonds:** sources, characteristics and identification
- **Methods of growing** HPHT and CVD diamonds
- **Inclusions** in Natural and Synthetic diamonds
- **UV lamp** – reaction of different diamonds, loose and mounted with “PL / Jewellery inspectors”)
- **CPF (Cross Polarized Filters) method** and to screen and ID diamond’s origin
- **Clarity and Color Enhancements – unstable** (Fracture Filling and coating),
- **Clarity Enhancements – stable** (Traditional Lasering, KM Laser drilling)
- **Post treatments of CVD-grown** colorless diamonds (HPHT)
- **ID of HPHT-enhanced diamonds** using advanced instruments
- **ID of mounted synt. diamonds** with EXA instrument and screening instruments
- Problems and solution in identification of **melee natural and synthetic diamonds**

**PRACTICAL WORKSHOP: Samples of Ia, Ila, I Ib, Ib diamonds (natural and synthetic origin)** are tested with mini UV lamp (“PL inspector”), microscopes with mini Polariscopes.

Afternoon (1:45 PM to 5:30 PM):

### **ID of Coloured Diamonds (Natural, Treated, and Lab-grown) Workshop**

- **YELLOW and ORANGE diamonds:** sources/producers, characteristics and ID
- **GREEN and CHAMELEON diamonds:** source/producers, characteristics and ID
- **BLUE and GRAY diamonds:** sources/producers, characteristics and ID
- **PINK and RED diamonds:** sources/producers, characteristics and ID
- **Use of Standard Instruments** to separate Coloured Natural and Synthetic Diamonds
- **Color Enhancements – stable** (irradiation, annealing, HPHT, multistep treatments)
- **Post treatments of HPHT-grown and CVD-grown diamonds** (irradiation and HPHT)
- **Identification methods for treated diamonds** with advanced instruments at labs
- **Grading and Certification** of coloured diamonds at gem laboratories

**PRACTICAL WORKSHOP: Coloured Diamonds** are tested with portable polariscope, PL Inspector, microscope and handheld spectroscope in screening and identification.

All participants will receive Handouts and Certificates of Completion.

**Branko Deljanin** is President and Head Gemologist at CGL-GRS Swiss Canadian Gem Lab, and founder of Gemmological Research Industries Inc in Vancouver, Canada. He is a research gemologist with extensive experience in advanced testing of diamonds and gemstones and has been an advanced diamond and gemology instructor in 15 countries. Branko has conducted on-site research on gems and colored diamonds in Sri Lanka, Russia, Brazil and Australia, and has managed many projects on natural, treated and synthetic diamonds.

He is an expert in identification of natural, treated and synthetic diamonds and gems for subsequent certification and works with advanced spectrometers to determine origin of color for colored diamonds and gems.

Branko is the instructor of “**Advanced Gemology**” programs on diamonds and coloured stones in Canada, USA, Russia, Brazil, Europe (Greece, Italy, Montenegro, Spain, Switzerland, UK, Turkey), Australia, New Zealand and Asia (Hong Kong, Thailand).

He has been a regular contributor to trade and gemological magazines and presented reports at numerous prestigious research and gemological Conferences, including the Mediterranean Gemmological and Jewelry Conference that he co-founded in 2015.