



*Certified Laboratory*

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**Gary L. Smith**

Forensic Gemologist®

Forensic Jeweler™

Gemstone & Jewelry Investigations

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## CURRICULUM VITAE

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I trained in Asia and Europe as a master goldsmith in the repair and restoration of antique jewelry and artifacts. With over 45 years of experience in the jewelry industry, I am able to address varied areas such as: casting, fabrication, stone setting, work shop practices and equipment. In addition to goldsmithing, I have had an accredited gemological laboratory since 1998 and the only forensic laboratory dedicated to the jewelry industry. In addition to litigation support, consulting and expert witness testimony, I am an accredited senior appraiser with the designation of Master Gemologist Senior Appraiser from the American Society of Appraisers with over 40 years of experience as a teacher, lecturer, and appraiser of gems and jewelry for private clientele, banks, insurance companies, legal firms, and the State of Pennsylvania Treasury Department. As a Forensic Gemologist, I have worked with the Smithsonian National Museum of Natural History.

### Teaching

#### American Society of Appraisers

1. Instructor - 1996 – International Appraisal Conference, Toronto, ON, Canada – “How to Identify Victorian and Edwardian Jewelry Reproduction”
2. 1997 – 1999 – Chairman for the Protocol Manual, “Standards – Theory & Techniques” for the Gems & Jewelry Committee. Authored: Antique Period Jewelry Course for GJ206 – Master Gemologist Appraiser
3. Instructor - 1997 – International Appraisal Conference, Houston, TX – “Tool Marks of the Masters©”
4. Instructor - 2002 – International Appraisal Conference, San Diego, CA – “Tool Marks of the Masters©”
5. Instructor – 2005 – International Appraisal Conference, Austin, TX – “Forensic Gemology 101”

6. Instructor – 2006 – GJ205 Course – Tucson, AZ
7. Instructor – 2007/2008/2009/2010 – GJ206 Course – Las Vegas, NV
8. Instructor – 2008/2009 – GJ205 Course – Hofstra University, NY
9. Instructor – 2010 – GJ205 – Iona College – NY
10. Instructor – 2011 – GJ205 – New York, NY

#### Joyce Jonas & Associates, Inc. – Permanent Faculty

1. Instructor - Jewelry 2001 – Adelphi University, Garden City, NY – “Tool Marks of the Masters©”
2. Instructor - Jewelry 2002 – Hofstra University, Hempstead, NY - “Tool Marks of the Masters©”
3. Instructor - Jewelry 2003 – Hofstra University, Hempstead, NY - “Tool Marks of the Masters©”
4. Instructor - Jewelry 2004 – Hofstra University, Hempstead, NY – “Tool Marks of the Masters©”, The Evolution of Jewelry Repair, and Laser Technology 101.
5. Instructor – Jewelry 2005 – Hofstra University, Hempstead, NY – “Forensic Gemology 101 ”, Laser Technology 101, Noble Metal Testing 101.
6. Instructor – Jewelry 2006 – St. Johns University, Queens, NY – “Forensic Gemology 101”, “Antique Jewelry Repair”.
7. Instructor – Jewelry 2007 – St. Johns University, Queens, NY – “Forensic Gemology 101”, “Antique Jewelry Repair”.

#### The Antique Jewelry & Art Conference, Inc.

1. Instructor - Jewelry 2008 – Hofstra University, Hempstead, NY - “Tool Marks of the Masters©”, Parts 1 & 2.
2. Instructor - Jewelry 2009 – Hofstra University, Hempstead, NY - “Tool Marks of the Masters©”, Parts 1 & 2.
3. Instructor – Jewelry 2010 – Iona College, New Rochelle, NY
4. Instructor – Jewelry Camp 2014 – Renaissance Westchester, West Harrison, NY – “Tool Marks of the Masters©”
5. Instructor – Jewelry Camp 2015 – Renaissance Westchester, West Harrison, NY – “Forensic Jewelry Appraising”

## International Society of Appraisers

1. Instructor - 2003 – Annual Conference on Personal Property Appraising, Philadelphia, PA – “Tool Marks of the Masters©”

## Advanced Laser Training

1. Instructor – 5/13/04 – 5/14/04 – Rofin-Baasel Inc., Plymouth, MI – “Antique Jewelry Repair”
2. Instructor – 9/16/04 – 9/17/04 – Rofin-Baasel Inc., Boxborough, MA – “Antique Jewelry Repair”
3. Instructor – 5/18/05 – 5/20/05 – Rofin-Baasel Inc., Plymouth, MI – “Evolution of Jewelry Repair”
4. Instructor – 10/12/05 – 10/14/05 – Rofin-Baasel Inc., Boxborough, MA – “Evolution of Jewelry Repair”
5. Instructor – 8/16/19 – Bench Jewelers Laser & Technology Conference - Organized by Scott Isaacs of Nashville’s Belle Meade Jewelry & Repair – “Evolution of Jewelry Repair – Advanced Laser Welding”, Nashville, TN

## Other Teaching Experience

1. 1996 – Toronto Antique and Period Jewellery & Gemstone Conference, North York, ON, Canada – Lecture: Gemstones in Antique Jewellery
2. 2002 – Pennsylvania College of Technology – Taught:
  - A. Diamonds
  - B. Colored Stones
  - C. Antique & Period Jewelry
3. 2003 – SI Workshop, Lafayette, LA – Taught “Tool Marks of the Masters©”
4. 2005 – Advanced Laser Training, Plymouth, MI
5. 2006 – Advanced Laser Training, Plymouth, MI
6. 2006 – Presentation to GIA Alumni, Washington DC
7. 2007 – American Gem Society, Conclave, Denver CO – “Romanov or Rip-Off?”
8. 2010 – PA Weights & Measures Conference, Lancaster PA – “Precious Metals 101”
9. 2011 – American Gem Society, Conclave, San Francisco CA – “Forensic Gemology 101”

10. 2012 – DC GIA Alumni, Arlington VA – “Precious Metals 101”
11. 2014 – Presentation at Drexel University, Philadelphia PA – “Forensic Gemology – Case Studies & Techniques”
12. 2014 – Presentation to the Tuscarora Lapidary Society, Philadelphia PA – “Evolution of Jewelry Repair”
13. 2015 – Presentation to the Royal Society of Chemistry – US Division, New York NY - “Forensic Gemology – Case Studies & Techniques”
14. 2017 – Presentation to the New Jersey Association of Forensic Scientists – Atlantic City, NJ – “Forensics in Jewelry, Case Studies”
15. 2019 – Presentation at AGA Conference, Tucson, AZ – “Carats, Carrots or Karats”
16. 2021 ~ Presentation to NAJA 56<sup>th</sup> AceitC Mid-Year Virtual Conference – “Noble Metal Testing 101 or What's It Made of Anyhow?”

### Authorship

Forensic Gemology: Identification of Tool Marks on Nobel Metals, titled “Tool Marks of the Masters©” – 1997  
– Power Point Presentation

### Litigation

Expert witness and consultant having been retained by various legal firms domestically & internationally.

### Accreditations

#### *American Society of Appraisers*

- Accredited Senior Appraiser with the designation of Master Gemologist Appraiser  
\*Reaccredited through 2026
- Past Chair – Master Gemologist Appraiser Program
- Past Chair – Gems and Jewelry Discipline
- Past Discipline Governor – Gems and Jewelry
- Certified instructor of GJ205, “Gems and Jewelry Appraisal Theory, Methods & Application”
- Certified instructor of GJ206, “Master Gemologist Appraiser” program
- International Secretary/Treasurer – 2012-2013
- International Vice President – 2013-2014
- International President – 2014-2015

#### *American Gem Society*

- Certified Gemologist Appraiser

## Society Memberships

Accredited Gemologist Association (AGA) – Past Board of Governors – Current Chairman Laboratory Accreditation  
American Gem Society (AGS)  
American Gem Trade Association (AGTA)  
American Society of Appraisers (ASA) – Past President, International  
American Society of Jewelry Historians  
GIA Alumni Association  
International Association for Identification (IAI)  
New Jersey Association of Forensic Scientists (NJAFS)  
Pennsylvania Jewelers Association (PJA) – Past 1<sup>st</sup> Vice President – Current Board Member  
Pennsylvania Society of Goldsmiths (PSG)  
Jewelers of America (JA)  
Jewelers Vigilance Committee (JVC)  
Society of North American Goldsmiths (SNAG)  
National Association of Watch & Clock Collectors, Inc. (NAWCC)

## Education

**1962 – 63      Electronics Engineering – Pennsylvania College of Technology – Associate Degree**  
**1964 – 69      United States Army Security Agency - electronics**  
**1965 – 66      Advanced Chinese Goldsmithing Techniques**  
**1966 – 69      Germanic/European Goldsmithing Studies**  
**1970 – 72      Certified Dental Technician**

**The completion of the following courses of study from the Gemological Institute of America, New York, New York and Santa Monica, California – (1994):**

- 1) Graduate Gemologist
- 2) Diamonds Graduate
- 3) GIA Diamond Grading
- 4) GIA Advanced Diamond Clarity Grading
- 5) Colored Stones Graduate
- 6) GIA Colored Stone Grading
- 7) GIA Gem Identification
- 8) GIA Enhanced Gemstones
- 9) GIA Separating Sophisticated Synthetics
- 10) Pearls
- 11) Advanced Gemology: Ruby, Sapphire, Emerald

**The completion of the following courses of study from the American Society of Appraisers, International Headquarters, PO Box 17265, Washington DC 20041 - (1996):**

- 1) Personal Property 201  
Introduction to Personal Property Valuation

- 2) Personal Property 202  
Personal Property Valuation Methodology – Research and Analysis
- 3) Personal Property 203  
Personal Property Valuation – Report Writing
- 4) Personal Property 204  
Personal Property Valuation – Appraisal Practice & Standards
- 5) USPAP – Uniform Standards of Professional Appraisal Practice
- 6) GJ 205 – Gems & Jewelry Appraisal Theory, Methods & Application
- 7) GJ 206 – Master Gemologist Appraiser
- 8) GJ203 – Appraising Gems & Jewelry for Advanced Assignments  
Development & Report Writing, McLean VA 7/2019

**The completion of the following courses of study from the American Gem Society, 8881 W Sahara Avenue, Las Vegas NV 89117 – (1996):**

- 1) Certified Gemologist
- 2) Certified Gemologist Appraiser

**Laboratory Certification:**

- 1) Accredited Gemologist Association
- 2) American Gem Society

**The completion of the following seminar from SEAK, Inc., PO Box 729, Falmouth MA 02541 – (February 2015 – New York, NY): “How To Be An Effective Appraisal Expert Witness”**

**The completion of the following seminar from SEAK, Inc., PO Box 729, Falmouth MA 02541 – (April 2015 – Washington, DC): “Law for Experts: What You Need to Know to Succeed”**

**The completion of the following seminar from SEAK, Inc., PO Box 729, Falmouth MA 02541 – (February 2016 – New York, NY): “How To Bulletproof Your Expert Witness Report”**

**The completion of the following seminar from the New Jersey Association of Forensic Scientists – (May 2018 – Atlantic City, NJ): “Advances in DNA Technology”**

**The completion of the following seminar from ASA – SEAK, Inc., PO Box 729, Falmouth MA 02541 – (May 2022 – Virtual): “How to Excel at Your Expert Witness Deposition”**

## Webinars:

“GCAL 8X® & Why Diamond Cut is Important”, GCAL ~ 11/10/2022  
“Discover the Benefits of 8X® Lab-Grown Diamonds”, Stuller & GCAL ~ 10/20/2022  
“Amber from Myanmar, Burmite”, AGA ~ 10/18/2022  
“Beyond Triple EX – Discover the New Standard of Excellence”, GCAL ~ 4/13/2022  
“Politics, Economics, and Diamond Prices: Dealing Diamonds Amid a New World Order”, Rappaport ~ 3/7/2022  
“Colored Gemstone Market Trends in Uncertain Times”, Gemworld ~ 2/23/2022  
“Is Fair Value Fair?”, ASA ~ 2/10/2022  
“Hardening of Jewellery Alloys”, Gem Atlas ~ 12/10/2021  
“The Gem Trade in Afghanistan”, GemWorld ~ 10/12/2021  
“Journey of a Gem Hunter”, AGS ~ 10/12/2021  
“Luke May, America’s Sherlock Holmes”, NJAFS ~ 10/6/2021  
“Direct and Cross-Examination Techniques; Making the Complex Understand”, ASA ~ 9/28/2021  
“History, Legend and Lore of Sapphires from Yogo Gulch, Montana”, AGA ~ 8/10/2021  
“Current Conditions & Trends Seen in the Gemstone Markets of East Africa”, Gemworld ~ 8/4/2021  
“Crime and Crime Prevention – The New Normal in the Gem and Jewelry World”, AGA ~ 7/13/2021  
“Expert Witness Engagements: From First Contact through Payment”, ASA ~ 5/4/2021  
“What Can You Do With Your Gemology?”, Accredited Gemologists Association (AGA) ~ 4/13/2021  
“Digging Into Archaeogemology”, National Jeweler by Cigdem Lule ~ 3/24/2021  
“Detective X & New Insights on the Trial of the Century: Forensic Science in the State of New Jersey v. Bruno Richard Hauptmann (1935)”, NJAFS w/Dr. John Butler ~ 3/3/2021  
“Giving an Effective Expert Deposition”, ASA ~ 2/16/21  
“New Talking Points About Lab-Grown Diamonds”, JA ~ 12/2/20  
“Update on Lab Grown Diamonds”, GCAL ~ 11/20/20  
“Chasing Rainbows – Light at the End of Your Spectroscope”, AGA ~ 10/20/20  
“Commonly Found Gemstones in Antique Jewelry”, AGA ~ 9/15/20  
“Gemmology Before Gemology – A History of Gemology”, AGA ~ 8/18/20  
“Current Market Conditions in the Gem Industry”, AGA ~ 7/14/20  
“Argyle Pink Diamonds”, AGA ~ 6/30/20  
“Ruby Treatments: A Thorough Review”, AGA ~ 6/16/20  
“Delivering Expert Testimony via Online Technology”, ASA ~ 5/26/20  
“Introduction to Colored Diamonds – Grading & Pricing”, Gemology Online Forum ~ 4/27/20  
“USPAP” webinar, ASA ~ 4/8/20  
“Navigating Personal Property, Valuation COVID-19 Concerns”, ASA ~ 4/2/20  
“Appraising Gems & Jewelry for Advanced Assignments: Development & Report Writing”, ASA ~ 7/18/19  
“ID of Synthetic Diamonds with Portable Instruments”, ASA ~ 7/18/2018  
“Synthetics: Decoding Your Responsibilities”, JVC ~ 6/28/2018  
“Conquering Comps” in Appraising Diamonds ~ 5/11/2016  
Luxury or Lie? A Prequel to Correctly Appraising Wristwatches ~ 4/4/2016  
Working with Attorneys: What Appraisal Professionals Need to Know ~ 6/9/2015  
Reasoning and Logic for Valuation Professionals ~ 1/16/2015  
ASA Principles, Practices and Code of Ethics ~ 2/5/2014

**Media:**

TV:

Inside Edition, 5/15/14 – Reconstructed Rubies

Today Show, 7/28/14 – Reconstructed Rubies

WNEP TV News, 9/17/21 – Columbus Pearls

Last updated – November 2022