



Certified Laboratory

Tel: 570-368-4436

Email: pagemlab@comcast.net



Gary L. Smith

Forensic Gemologist®

Forensic Jeweler™

Gemstone & Jewelry Investigations

CURRICULUM VITAE

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 50 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. Also, an experienced expert witness having represented several international entities within the jewelry industry

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 56th 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 ~ Ret.

Society Memberships

Accredited Gemologist Association (AGA) – Past Board of Governors – Current Chairman Laboratory Accreditation
American Gem Society (AGS) – Past Member, CGA (6/11/96 – 12/19/25)
American Numismatic Association (ANA)
American Society of Appraisers (ASA) – Past President, International
American Society of Jewelry Historians
GIA Alumni Association
International Association for Identification (IAI)
National Association of Watch & Clock Collectors, Inc. (NAWCC)
New Jersey Association of Forensic Scientists (NJAFS)
Pennsylvania Society of Goldsmiths (PSG)
Society of North American Goldsmiths (SNAG)

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:

“Associated Art Forms: Jewelry & Architecture”, ASJRA ~ 4/29/2025
“How Auctions Work in the Gems & Jewelry Trades”, ASA ~ 4/2/2025
“World of Australian Opal”, presented by Kym Hughes, FGA, FGAA, Dip DT, Dip Val, AGA ~ 10/15/2024
“Don’t Gloss Over Your Glossary”, Appraisers Association of America ~ 5/21/2024
“Why Meteorites Should Matter”, presented by Darryl Pitt, AGA ~ 5/14/2024
“G7 Sanctions: What Retailers Need to Know – Diamond Traceability Insights with Sarine & Tracr™”, GCAL ~ 3/20/2024
“Rapaport Warning to the Diamond and Jewelry Trade”, Rapaport ~ 9/13/2023
“A New Vision for the Diamond Industry”, Sarine & GCAL ~ 5/4/2023
“All You Need to Know About Saltwater Pearls”, AGA ~ 4/25/2023
“The Wisdom of the Pastrami Sandwich Story”, NACVA ~ 2/23/2023
“Digital Forensics”, NJAFS ~ 12/7/2022
“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

Media:

TV:

Inside Edition, 5/15/14 – Reconstructed Rubies
Today Show, 7/28/14 – Reconstructed Rubies
WNEP TV News, 9/17/21 – Columbus Pearls

Articles:

Pennsylvania College of Technology Magazine – Gemological Adventures -

<https://www.pct.edu/magazine/articles/2025/09/12/gemological-adventures>

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