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Certification:

- Passed a 240 item cognitive examination and an 8 item performance examination and was awarded board certification by the Board of Forensic Document Examiners in 2003. Recertified 2008, 2013 and 2018. *BFDE certification is accredited by the Forensic Specialties Accreditation Board.*
- Passed written and oral examinations; awarded certification by the National Association of Document Examiners in 1997. Recertified 2005, 2010, 2015
- Designation Certified Fraudulent Document Examiner by AllRegs Academy in 2008.

Experience:

- Private practice for 33 years examining cases from North Carolina and 42 other states, and internationally. Accepted as an expert witness and testified in state civil/criminal courts in eleven states, and in federal court; appointed by state and federal courts

Proficiency:

- 1998-2000, 2005-2013, 2018 participated successfully in proficiency testing in Handwriting Examination or Document Examination. Collaborative Testing Services of Herndon, VA
- 2001-2008 participated successfully in the Handwriting Identification Proficiency- testing program of the Forensic Expertise Profiling Laboratory at Latrobe University in Australia.
- Results available upon request.

Professional Associations:

- Member and Past President, of the Association of Forensic Document Examiners (AFDE). Also Editorial Board member for the Journal of Forensic Document Examination (AFDE Journal) from 2005 - present.
- Secretary, Board of Forensic Document Examiners, 2007 - 2012. Treasurer, 2015 - present
- Member of the International Graphonomics Society (IGS) - a society for the science and technology of handwriting and other graphic skills.
- Member of the National Association of Document Examiners (NADE). Also Editor of the Journal of the National Association of Document Examiners from 1999-2004.
- Director, Forensic Specialties Accreditation Board (FSAB), 2008-present, Secretary FSAB 2015-2017, Vice-President 2017 - present
- Member, NIST Human Factors Expert Working Group for Handwriting Examination - 2015-present

Education:

- BS in Education - Syracuse University, 1969
- MA in Counseling - Syracuse University, 1970

Training:

- Studied 1 1/2 years (1985-86) as a private student of Mr. Felix Klein, during which completed work, and examinations in the field of Document Examination. Mr. Klein, a document examiner with 40 years experience, served as a consultant to the United Nations and testified in many foreign countries, and in the U.S.
- Seminars in Printing Process Identification and Image Analysis for Forensic Examiners at Rochester Institute of Technology in June 2001 and 2002.
- Fundamentals of Microscopy for Forensic Document Examiners at the McCrone Institute College of Microscopy - August 24, 2005
- Advanced Fraudulent Document Recognition, AllRegs Academy, August 21-23, 2008

Continuing Education:

- Continuing education through journals, workshops and seminars.

- Attended the AFDE 3-4 day Symposia in 2002-2019 and the NADE 3-4 day conferences in 1996-2019.
- In 1988, 1989, 1993, 1996, 1999, 2003, 2017-19 attended the annual Scientific Sessions of the Questioned Document Section of the American Academy of Forensic Sciences and technical workshops in 2007, 2009, 2013, and 2015.
- Attended the ASTM E30.02 subcommittee meeting in 2002-2008
- Attended the IGS Biennial Conference in 2011, 2015 and 2017.
- Prepared/taught course (45 hrs instruction, 3 credits) entitled “Introduction to Document Examination Equipment” at College Notre-Dame-de-Foy in Quebec, Canada. 2004, 2005

Equipment: Bausch and Lomb StereoZoom5 microscope (8X-160X), Foster and Freeman VSC-4c Video Spectral Comparator, ESDA-Lite Indentation Materializer, Mac/PC computers, scanners.

Library: Professional library containing over 1000 articles and monographs and 50+ books on the subjects of handwriting identification and document examination.

Publications:

- Good Standards in Document Examination Cases, *Trial Briefs* (North Carolina Academy of Trial Lawyers) Summer, 1988
- Medical Records Case Solved Photographically, *NADE Journal*, Spring, 1998
- Ink Differentiation with Digital Photography, *NADE Journal*, Spring, 1999 and *International Journal of Forensic Document Examination*. 1999
- A Discussion of Dandy Rolls and Watermarks - co-author Mr. Robert Johnson , *NADE Journal*, Fall, 1999
- The Microscope - Through the Looking Glass - *Chemistry in Australia* - (The Journal of the Royal Society of Chemists in Australia) May 2000
- Handwriting, Biomechanics and Significance: Concepts in Handwriting Identification, *NADE Journal*, Summer 2001
- Seeing is Believing – Exhibits from the Perspective of the Forensic Document Examiner, *Illinois Law Enforcement Executive Forum*, Vol. 2, #3, August, 2002
- Micrometry Using a Calibrated Ocular Reticule; co-author Joseph Barabe, *NADE Journal*, 2005
- Wake Up to the Wacom™ Tablet - *Journal of Forensic Document Examination* –Vol. 17, 2004-5
- Progress in Digital Microscopy - A Technical Review of the MiScope Digital Microscope - *Journal of Forensic Document Examination* - Vol. 20, 2010
- Inferring Relative Speed of Handwriting from the Static Trace - *Journal of Forensic Document Examination* - Vol.22, 2012

Presentations:

- Handwriting, Biomechanics and Significance - 2000 NADE Conference
- Research for the Document Examiner - 2001 NADE Conference
- Line Sequence and MICS – Research in Progress – 2001 AFDE Symposium
- The Electromagnetic Spectrum - 2002 NADE Pre-Conference Workshop
- Importing Science - 2002 AFDE Symposium
- Three Significant Cases – 2003 NADE Conference
- Print Process Identification – 2003 AFDE Symposium, 2004 IAQDE, 2005 NADE
- Dynamic Trace and Static Trace – 2004 NADE Conference
- Establishing the Science of Handwriting Identification – 2004 AFDE Symposium
- Speed in Handwriting - 2006 NADE Conference, 2006 AFDE Symposium
- Technical Review of the MiScope Digital Microscope - 2009 AFDE Symposium
- Speed in Handwriting Research Project - 2010 AFDE Symposium, 2011 IGS Conference
- Introduction to Document Examination Equipment - 2011 NADE 2-day Workshop
- Handwritten Electronic Digitized Signatures - 2011 AFDE Symposium, 2012 NADE
- Point of Sale Signatures and their Forensic Examination - 2012 AFDE Symposium
- Constructing a Forensic Report - 2013 NADE Conference
- One Significant Difference - 2014 NADE Conference, 2014 AFDE Symposium
- Parameters for Examination of Non-original Documents, 2015 NADE Conference
- NIST Expert Working Group - Human Factors in Handwriting Examination, 2016 NADE Conference
- Explaining the Basis for Handwriting Identification, 2016 AFDE Symposium
- Expressing Forensic Document Examination Opinions, 2017 NADE Conference
- A Quality Manual for Forensic Document Examiners 2018 AFDE Smposium
- Expressing Opinions Regarding Questioned Handwriting 2019 AFDE Symposium