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## Certification:

| Certification.                |   |
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|                               | <ul> <li>Passed a 240 item cognitive examination and an 8 item performance examination and was<br/>awarded board certification by the Board of Forensic Document Examiners in 2003.<br/>Recertified 2008, 2013 and 2018. <i>BFDE certification is accredited by the Forensic Specialties</i><br/><i>Accreditation Board</i>.</li> </ul> |
|                               | <ul> <li>Passed written and oral examinations; awarded certification by the National Association of<br/>Document Examiners in 1997. Recertified 2005, 2010, 2015</li> </ul>   |
|                               | 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   |
| D. (* .                       | 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   |
|                               | <ul> <li>2001-2008 participated successfully in the Handwriting Identification Proficiency- testing program of<br/>the Forensic Expertise Profiling Laboratory at Latrobe University in Australia.</li> </ul>   |
|                               | Results available upon request.   |
| Professional<br>Associations: |   |
|                               | <ul> <li>Member and Past President, of the Association of Forensic Document Examiners (AFDE).<br/>Also Editorial Board member for the Journal of Forensic Document Examination (AFDE<br/>Journal) from 2005 - present.</li> </ul>   |
|                               | • 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.  |
|                               | <ul> <li>Member of the National Association of Document Examiners (NADE). Also Editor of the<br/>Journal of the National Association of Document Examiners from 1999-2004.</li> </ul>   |
|                               | <ul> <li>Director, Forensic Specialties Accreditation Board (FSAB), 2008-present, Secretary FSAB<br/>2015-2017, Vice-President 2017 - 2021. Elected President in 2021.</li> </ul>   |
|                               | <ul> <li>Member, NIST Human Factors Expert Working Group for Handwriting Examination - 2015-<br/>present</li> </ul>   |
| 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.             |
|                               | <ul> <li>Seminars in Printing Process Identification and Image Analysis for Forensic Examiners at<br/>Rochester Institute of Technology in June 2001 and 2002.</li> </ul>   |
|                               | <ul> <li>Fundamentals of Microscopy for Forensic Document Examiners at the McCrone Institute<br/>College of Microscopy - August 24, 2005</li> </ul>   |
|                               | Advanced Fraudulent Document Recognition, AllRegs Academy, August 21-23, 2008   |
| Continuing<br>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

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

Professional library containing over 1000 articles and monographs and 50+ books on the subjects Library: 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<sup>™</sup> 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 IAODE, 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