

**Moisture Mob Hands-on Moisture Testing Workshop
Winter Break February 18th, 2026, Fairfield Inn Bonita Springs**

Workshop Facilitator: G. Pete Consigli

Workshop Exam Proctor: John T. Hull

Workshop Instructors:

Roland A. Vierra, Howard W. Brickman, David Daniels, Andrew Rynhart



**Roland A. Vierra
President and CEO
FLOORING FORENSICS, INC.**

ABSTRACT

“Best Practices for Performing a Forensic Flooring Inspection”

Flooring Forensics is a great descriptor, but what does it really mean?

Through the lens of 2 case study projects, it will be demonstrated that forensics is a well-defined series of steps, or procedures, which keep the “investigation” on track with the end goal being to answer the question: What happened, and why?

Using the “scientific method,” the steps for any investigation are laid out in a hierarchy that naturally flows from the initial steps of observing a phenomenon, gathering all necessary information, forming a hypothesis, collecting data, analyzing the data, drawing a conclusion, and then communicating the results of the “forensic evaluation.”

This presentation will explain and answer the “forensic question” by sharing experiences from over 4 decades of field experience and the lessons learned on every project. Those lessons have produced a process with duplicatable results on projects ranging from a residential bungalow to a skyscraper in downtown San Francisco, as every inspection is approached in the exact same way.

End of abstract.

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Celebrating more than 40 years of professional service to the flooring industry



Roland A. Vierra
Flooring Forensics, Inc.
P.O. Box 28121
San Jose, California 95159

408.999.0922
Roland@FlooringForensics.com
www.FlooringForensics.com

Third-party observation and comment on a floor covering issues, problems and complaints SM

Consulting • Inspections • Forensics • Concrete Moisture Testing • Speaking and Training

BIO SKETCH

Roland A. Vierra is the President and CEO of **FLOORING FORENSICS, INC.**

Flooring Forensics is an independent consulting firm specializing in the science and forensic evaluation of floor covering performance failures.

Flooring Forensics, Inc. is a foremost authority in concrete moisture testing.

Flooring Forensics, Inc., supports legal insurance, design, construction, manufacturing and installation professionals through proficient advisory and consultant services, specific to the performance and behavior of all floor coverings and floor coating systems.

Mr. Vierra has been a third-party claims consultant for more than 40 years. During that time, he has advised numerous clients on product and installation selection, evaluated performance and installation failures, and been designated as an expert in many construction defect litigation actions.

For more information contact:

Phone: (408) 999-0922

Email: Roland@FlooringForensics.com

Website: www.FlooringForensics.com

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**Howard W. "Woodie" Brickman
Moisture Mob Capo Hardwood Family**

Charter Member NWFA 1986-2013 and Member of Technical Committee

**Key Talking Points for and by: Howard Brickman
Hands-on Training on the Inspection of Hardwood Flooring and Substrates**

- What are the critical action items for wood floor job site evaluation?
- Dry, flat, fresh, clean!

- **Tools:** Tramex concrete and wood meters; infrared thermometers w/Dew Point, flashlight, 16"-17" Buffer, broom, vacuum, plastic water bottle, pencil/crayon/marker.

- Measure **dryness** with a professional moisture meter on the surface and below.
- Pin type and/or Tramex ME5/MEX5 for wood. Tramex Concrete encounter for concrete

- What does your moisture meter selection mean about your professionalism?

- Determine flatness with an 8' to 10' straight edge or laser level.

- Determine freshness (surface energy) with a drop(s) of water.

- Determine clean by rolling a hardboiled egg on the floor to see how much sticks to it.

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What are BEST PRACTICES that virtually provide 0% liability?

- ✓ Vacuum the entire surface then grind or coarse sand the entire subfloor surface then another thorough vacuuming. One cannot properly evaluate a space that is full of contents!
- ✓ Measure the temperature of the subfloor surface AND ambient temperature and Dew Point.
- ✓ Map the surface level with a laser on a 4' grid pattern. Pick the highest or lowest point for reference and put the elevation difference at each grid point. Also check MC!
- ✓ Discuss your findings with all materially interested stakeholders to the project, especially your client/customer, considering issues related to confidentiality!

Brickman Bio Sketch

Work Experience:

- **'84 to Present** *Self-employed* . Have established a full-service hardwood flooring consulting and contracting company. Specialize in custom installations such as Great Hall-Faneuil Hall, Hatch Memorial Shell, Boston; Henri Bendel Store, Boston; The Country Club, Brookline; Mechanics Hall, Worcester. Federal Reserve Bank, Boston; and This Old House Program WGBH .
- Operate a private wood flooring consulting service providing service to the U. S. with regard to manufacture, storage, installation, finishing, & job site conditions.
- Howard has conducted a complete courses of instruction on all aspects of installation, sanding, finishing, and inspecting of wood floors.
- He has conducted numerous seminars at NWFA and Floor Education Guild events. Winner "Floor of the Year" contest 2000. Technical consultant for Bob Vila TV "Home Again."
- Charter member Wood Floor Guild. Certified NWFACP Wood Floor Inspector 2004 to January 2009, **did not renew in 2009 due to disagreement with NWFACP policies.**
- Certified NWFACP Install, Sand & Finish, Nov 2008 to 2013. Charter member NWFA 1986-2013 and member of Technical Committee **did not renew in 2013 due to disagreement with NWFA policies.**

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Education:

- Attended *State Technical Institute- Memphis* , 1977-78 Architectural Engineering
- Attended *University of Massachusetts-Amherst* , 1995-98 Building Materials & Wood Technology
- M.S. and Ph. D. coursework completed May 1997. Teaching Assistant in Wood Anatomy Lab Thesis and Dissertation not completed.



**David Daniels, Head of Sales
North America Flooring, Tramex USA**

Abstract Time of Install Moisture Testing for Concrete

Concrete is a dynamic material that continuously interacts with its surrounding environment. This session, presented by TRAMEX Meters, explores why all concrete moisture tests only represent conditions at the time of testing — and how ambient temperature and humidity can significantly influence those readings. The restoration industry's strong understanding of environmental control provides a valuable perspective on managing these variables and interpreting test results accurately. By applying this knowledge to flooring installation, attendees will learn how to evaluate real-time moisture conditions, make better-informed installation decisions, and prevent costly flooring failures through proper time-of-install testing practices.

Bio Sketch

David is an accomplished professional, in charge of Sales and Technical Support for North America, at Tramex Meters. He has a strong dedication to the Flooring Industry, he brings extensive expertise and a passion for delivering exceptional technical support to customers.

David was born into a family deeply rooted in the Flooring Industry, He possesses a wealth of knowledge that spans two generations. Prior to joining Tramex Meters, he actively contributed to his family's Floor Covering business in various capacities, gaining invaluable experience and insights along the way. David's commitment to advancing industry standards is evident through his involvement on the ASTM F06 committee.

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As a member, he actively contributes to the development and implementation of cutting-edge practices within the flooring sector.

Recognizing the critical importance of staying ahead of industry trends, David spearheads the implementation of Tramex Training initiatives throughout North America. He places a special emphasis on advocating for Time of Install moisture testing for concrete, ensuring that professionals are equipped with the necessary tools and knowledge to make informed decisions. David's proven record of accomplishment of leadership, technical expertise, and a deep-rooted passion for the Flooring Industry, slows him to continue to make significant contributions, driving growth and innovation within Tramex Meters and the broader flooring community.

Contact Details: david@tramexmeters.com and **Visit:** <https://tramexmeters.com/>



**Andrew Rynhart, (CTO)
Chief Technology Officer Tramex Meters
The Moisture Mob ‘Don’**

Abstract:

This presentation will give an overview of Wood Moisture Equivalent (WME), and the Best Practices for the Use and Application of Impedance (nondestructive) Moisture Meters versus Penetrating (intrusive) Moisture Meters. The presentation will also address the use of Insulated Probes for below surface testing , and RH sensors to document readings in the cloud.

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Bio Sketch:

Andrew Rynhart is the CTO of Tramex Ltd. He was taught from a young age about moisture in buildings from his father who was the founder of Tramex meters and inventor of the first commercially successful nondestructive moisture meters for building inspection. Andrew has been fortunate over the years to have learned a great deal about moisture in the building envelope from many of the world-leading technical people in Roofing, Flooring, IAQ, Water Damage, Pest Control and other industries who use these meters, in the United States, the UK, and Europe. For over four decades, Tramex has been an international leader in design and manufacturing of moisture and humidity meters. Tramex's heritage in innovation began with its foundation in 1974.

Today Tramex continues to innovate, design and manufacture moisture meters for building inspection with the latest range of meters currently being launched. Andrew has been involved in their development every step of the way.

Tramex's heritage in innovation dating back to the 1970's inspired by their experience and knowledge of building moisture inspection, Tramex invented, patented, and developed the first ever non-destructive moisture meters.

The company's passion is to innovate, design and manufacture moisture meters for building inspection to the highest standards of precision and durability in a variety of industries such as Water Damage Restoration. Andrew has worked in the business for almost 20 years, having served in a variety of positions from the ground up. He has given a number of presentations in the UK, Europe, and the USA, and authored several articles regarding moisture. Under Andrew's leadership, Tramex has expanded globally in the industries it serves to include all of North America and Australasia.

Reach Andrew at: andrew@tramexmeters.com and **Visit:** <https://tramexmeters.com/>

IAQradio+ Podcast and Blog: <https://www.iaqradio.com/andrew-rynhart-tramex-limited-measuring-documenting-moisture-content/>

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**Ralph E. Moon, Ph.D.
Moisture Mob Associate, aka “Bad Moon Rising”**

Abstract

This presentation will cover best practices for performing a moisture investigation to provide a defensible report of findings for insurers, property owners and /or attorneys for claims resolution. When you make the commitment to investigate a loss on behalf of a client, there is an underlying expectation that your findings will conclude with a thoughtful and persuasive description of the problem that precipitates a fair and equitable resolution without going to court. This presentation will examine selected field techniques that examine elements of water losses so that you can explain competent field methods to write a scientifically defensible report.

Bio Sketch:

Dr. Ralph Moon is the Owner of Ralph E. Moon Consulting LLC., an insurance services company that investigates water-related damage for insurance claims. Dr. Moon specialized in the origin, cause, and duration of loss and is actively involved in litigation services. Dr. Moon’s research has included the effectiveness of cleaning methods to remove mold from fabrics and the sequential deterioration of a wide variety of wood materials, wood flooring and corrosion on common building components and plumbing materials.

Dr. Moon’s research is used to interpret the consequences of constant and repeated moisture exposure and provides science-based and peer-reviewed research to support decisions on insurance coverage. During the past 18 years, Dr. Moon has presented his research to attendees at hundreds of insurance-related conferences, educational seminars, and academic congresses.

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Dr. Moon is a graduate of Western Michigan University and the University of South Florida; his office is in Tampa, Florida.

For more information visit: <http://www.ralphmoonphd.com>

IAQradio+ Links for Ralph Moon podcasts & blogs:

<https://www.iaqradio.com/ralph-e-moon-phd-chmm-ciaqp-water-damage-duration-of-loss-building-science-episode-272-flashback-friday/#more-1711>

<https://www.iaqradio.com/ralph-moon-phd-michael-bowdoin-esq-hurricane-coverage-finale-insurance-and-legal-issues-what-did-we-learn/#more-3663>

<https://www.iaqradio.com/ralph-moon-phd-jeremy-beagle-cih-post-remediation-verification-after-a-flood-or-sewage-loss/#more-8445>



Winter Break Week Facilitator:

Bio Sketch:

G. Pete Consigli, CR, WLS

**Industry Adviser, RIA Honorary Member & Historian, IAQA Hall of Fame Inductee
A Moisture Mob Consigliere; **Guest of Honor RIA's Roast of Pete Consigli!****

Pete Consigli is a Restoration Industry Association (RIA) Certified Restorer (CR) and Water Loss Specialist (WLS) and has been a member of the Restoration Industry Association since 1977. Over the years he has been an active volunteer and filled various association leadership roles.

Pete is RIA's "Resident" Historian and an archival resource to the industry. In 2008, Pete received RIA's most prestigious honor for excellence in restoration, the Martin L. King award. In 2012 RIA made Pete the second honorary member to its association, only the third such honor in RIA's 75 years.

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In 2015 in Dallas Texas the Indoor Air Quality Association (IAQA) inducted Pete into the IAQA Hall of Fame. Pete has been an adviser and bridge between the restoration industry and IAQ and Building Science communities since the 1990's. Pete Consigli has been in the cleaning, restoration, and IAQ industry for five decades. He contributes to trade publications and standards development and participates in industry events. Pete has been an Adviser for RIA's Water Loss Specialist (WLS) advanced certification designation and enjoys Emeritus status as one of the WLS program's founding fathers to the program since its inception in 1999.

The RIA recognized Pete in 2021 at their 75th Diamond Anniversary Convention in Orlando, Florida by naming its new scholarship program, "The RIA Pete Consigli Educational Scholarship Award" in his honor. RIA presents the award at its Annual Convention and Exposition. Pete has been an advocate of Purdue University's Disaster Restoration and Reconstruction Management (DRRM) program. He has provided guest lectures to the DRRM students assisting with internships & employment in the industry. Pete advises the RIA education committee and staff on matters impacting the restoration industry and its members. In his 5th decade in the industry Pete enjoys his reoccurring role on IAQradio+ as the "Restoration Global Watchdog. Pete is well-known as the Building Science Summer Camp's "Executive Chef Emeritus."

3 Part History of the Restoration Industry Podcast and Blog:

<https://www.iaqradio.com/iaq-radio-classic-pete-consigli-the-z-man-a-history-of-the-restoration-industry-parts-1-3/#more-4609>



Proctor Competency Substantiation Exam
John T. "The Roof Guy" Hull
Moisture Mob Capo Roof Family

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Bio Sketch:

John T. Hull has 25+ years in the roofing and coatings industries. He is a recognized authority on roof restoration and moisture detection within the roof and building envelope.

Mr. Hull has provided technical support, training, and consulting in over 30 Countries. His expertise in roof restoration has contributed to roofing projects at NFL stadiums, airports, universities, hospitals, military bases and even the White house.

Mr. Hull's background includes being the former:

- President and Operator of Hull Roofing
- Global Sales & Technical Director for The Sherwin-Williams Roofing Solution Group
- Mr. Hull currently runs three companies all affiliated with the building envelope industries:
- President of Hull Group Inc.---(HGI) Hull Group Inc. is a manufacturers rep agency
- servicing the roofing and building materials industry.
- President of Gulf Coast Infrared --- (GCI) Gulf Coast Infrared is a roof moisture detection company specializing in roof condition and roof moisture survey and analysis.
- President of American Roofing Educators ---(ARE) is a training company based in
- North Florida that provides training to the roofing and building envelope
- industries.

Mr. Hull's current certifications and professional affiliations include:

- ITC Level II Certified Thermographer
- Licensed Nuclear Moisture Gauge Operator
- Member of IIBEC (Institute of Building Enclosure Consultants)
- Voting Member ASTM D08 Roofing Committee

For More Information: john@gulfcoastinfrared.com

Visit Home Pages: <https://gulfcoastinfrared.com/> and www.americanroofingeducators.com

IAQradio+ Podcast and Blog: <https://www.iaqradio.com/john-t-hull-roofs-moisture-meters-inspections-solutions-for-leaks-lessons-learned-from-an-industry-veteran/#more-5567>

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Commercial Research Drying Institute Mobile Hands-on Training Flood House



CDRI 48 Ft Trailer Side View



CDRI Trailer with Steps Extended