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**INNOVATING NUCLEAR TECHNOLOGY**  
ANALYSIS AND MEASUREMENT SERVICES CORPORATION

## RYAN D. O'HAGAN

### *Marketing Manager*



As Marketing Manager at AMS, **RYAN D. O'HAGAN** oversees the marketing, sales, and business operations for AMS products and services. Among his chief responsibilities since joining AMS in 2009, Mr. O'Hagan regularly interacts with current and prospective clients of AMS both in the U.S. and abroad, ensuring that AMS projects are carried out on schedule and per customer specifications and requirements.

Mr. O'Hagan is a member of the American Nuclear Society (ANS). He also serves as a paper reviewer, session chair, and technical program committee member for numerous ANS conferences, helping most recently to organize ANS' 9th International Conference on Nuclear Plant Instrumentation, Control and Human-Machine Interface Technologies (NPIC & HMIT) in 2015.

Mr. O'Hagan was a key team member that helped garner the company the prestigious ANS 2015 Robert L. Long Training Excellence Award, which recognized AMS for demonstrating sustained excellence in nuclear training over nearly 40 years. He was also awarded in 2015 as a "40 Under Forty" by the *Greater Knoxville Business Journal* for being among the top business leaders in the region.

Mr. O'Hagan is involved in national and international activities for the nuclear industry and has numerous publications in this area. He contributed to the "Light Water Reactor Sustainability (LWRS) Program—Non Destructive Evaluation (NDE) R&D Roadmap for Determining Remaining Useful Life of Aging Cables in Nuclear Power Plants." He also served as an invited consultant and observer for a Coordinated Research Project (CRP) of the International Atomic Energy Agency (IAEA) focused on the optimization of I&C maintenance practices for research reactors.

Prior to his managerial role, Mr. O'Hagan worked as a technical services engineer making site visits or providing field testing services to numerous nuclear power plants in the U.S. and overseas. He has experience in several industries including high technology instrumentation and data acquisition technologies, manufacturing, enterprise software, and nuclear power. He has a B.S. in Industrial Engineering from the University of Tennessee-Knoxville.



**Ryan D. O'Hagan**

## Awards & Honors

- 2015 American Nuclear Society (ANS) Robert L. Long Training Excellence Award
- 2015 *Greater Knoxville Business Journal's* "40 Under Forty"

## National Conference Presentations

Erickson, P., O'Hagan, R., Shumaker, B., Hashemian, H.M., "On-Line Monitoring of I&C Transmitters and Sensors for Calibration Verification and Response Time Testing Was Successfully Implemented at ATR." American Nuclear Society 10th International Topical Meeting on Nuclear Plant Instrumentation, Control and Human-Machine Interface Technologies (NPIC & HMIT), San Francisco, CA (June 11–15, 2017).

O'Hagan, R.D., Hashemian, H.M., Shumaker, B.D., Riggsbee, E.T., "Implementation of On-Line Monitoring to Optimize I&C Maintenance: A Case Study." American Nuclear Society 9th International Topical Meeting on Nuclear Plant Instrumentation, Control and Human-Machine Interface Technologies (NPIC & HMIT), Charlotte, NC (February 23–26, 2015).

Hashemian, H.M., Walz, M.E., O'Hagan, R.D., Pruitt, M.S., "Online Monitoring in Research Reactors—Safe and Effective." American Nuclear Society 2013 Annual Meeting, Atlanta, GA (June 16–20, 2013).

Hashemian, H.M., Shumaker, B.D., Ledlow, J.B., O'Hagan, R.D., McCarter, D.E., "Remaining Useful Life Estimation of Electric Cables in Nuclear Power Plants." American Nuclear Society 2013 Annual Meeting, Atlanta, GA (June 16–20, 2013).

Shumaker, B.D., O'Hagan, R.D., Ledlow, J.B., McCarter, D.E., Hashemian, H.M., "Application of Prognostic Methods for Predicting Remaining Useful Life of Nuclear Plant Equipment and Components." American Nuclear Society 8th International Topical Meeting on Nuclear Plant Instrumentation, Control and Human-Machine Interface Technologies (NPIC & HMIT), San Diego, CA (July 22–26, 2012).

O'Hagan, R.D., Riggsbee, E.T., Pruitt, M.S., Hashemian, H.M., "Implementation of On-Line Condition Monitoring Technologies in Research Reactors." American Nuclear Society 8th International Topical Meeting on Nuclear Plant Instrumentation, Control and Human-Machine Interface Technologies (NPIC & HMIT), San Diego, CA (July 22–26, 2012).

Hashemian, H.M., Riggsbee, E.T., O'Hagan, R.D., "Recent Demonstrations of On-Line Condition Monitoring Techniques for Research Reactors." 2011 American Nuclear Society (ANS) Winter Meeting and Nuclear Technology Expo, Washington, D.C. (November 2011).

Hashemian, H.M., Kiger, C.J., Riggsbee, E.T., Phipps, K.O., O'Hagan, R.D., "Wireless Sensors for Equipment Health and Condition Monitoring in Nuclear Power Plants." 2nd Annual Future of Instrumentation International Workshop (FIW), Oak Ridge National Laboratory, Oak Ridge, TN (November 2011).

O'Hagan, R.D., Hashemian, H.M., Riggsbee, E.T., "Research Reactor Maintenance and Life Management through On-Line Monitoring." Test, Research and Training Reactors (TRTR) 2011 Annual Conference, Idaho Falls, ID (September 2011).



**Ryan D. O'Hagan**

## **NATIONAL CONFERENCE PRESENTATIONS (cont.)**

Kiger, C.J., Hashemian, H.M., Johnson, W.S., O'Hagan, R.D., "Introduction to Wireless Technology: A Perspective for the Power Generation Community." 54th Annual ISA Power Industry Division (POWID) Symposium, Charlotte, NC (June 2011).

O'Hagan, R.D., Hashemian, H.M., "On-Line Monitoring Techniques for Improved Reliability and Maintenance of I&C Systems in Research Reactors." American Nuclear Society (ANS) Topical Meeting of Nuclear Power Plant Instrumentation, Control and Human-Machine Interface Technologies (NPIC & HMIT), held concurrently with the ANS National Meeting, Las Vegas, NV (November 2010).

## **Patents**

Hashemian, H.M., O'Hagan, R.D., "Pitot Tube Diagnostic Systems and Methods." Patent No. US 8,924,184 B2 (Awarded December 2014).

## **Publications**

### **EPRI REPORTS**

"On-Line Calibration Monitoring of Safety-Related Pressure Transmitters at Watts Bar Unit 1." EPRI Final Report (January 2010).

### **JOURNAL ARTICLES**

Shumaker, B.D., McCarter, D.E., Hashemian, H.M., O'Hagan, R.D., "Frequency Domain Reflectometry for Remaining Useful Life Estimation of Instrumentation and Control Cables." Proceedings of the Institution of Mechanical Engineers, Part O: *Journal of Risk and Reliability* (August 2014).

Shumaker, B.D., Ledlow, J.B., O'Hagan, R.D., McCarter, D.E., Hashemian, H.M., "Remaining Useful Life Estimation of Electric Cables in Nuclear Power Plants." *Chemical Engineering Transactions*, Vol. 33 (September 2013).

### **TECHNICAL REPORTS**

"On-Line Monitoring Technology for Aging Management and Life Extension of the Advanced Test Reactor at Idaho National Laboratory," U.S. Department of Energy Small Business Innovation Research (SBIR) Program Phase I Final Report, Contract No. DE-SC0000942 (January 2011).

"In-Flight and Pre-Flight Detection of Pitot Tube Anomalies," NASA Glenn Research Center, Small Business Innovation Research Phase I Project Final Report, Contract Number NNX10CC65P (July 2010).

"Implementation Guidelines for Wireless Networks and Wireless Equipment Condition Monitoring." EPRI Final Report, 1019186 (November 2009).