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Dr. DeVol is the Toshiba Professor of Nuclear Engineering and the director of the Nuclear Environmental Engineering Sciences and Radioactive Waste Management Center at Clemson University. Dr. DeVol's primary teaching responsibilities are in the areas of radiation detection and measurement, environmental risk assessment and introduction to nuclear engineering and radiological sciences. Dr. DeVol oversees the ABET-ASAC accredited Environmental Health Physics educational program in the department. Dr. DeVol's research interests are in the areas of radiological environmental measurements, environmental health physics, statistical methods, homeland security, nuclear forensics, and in-situ and field portable analytical instrumentation for radioactive environmental contaminant quantification. Dr. DeVol has over 60 referred publications and over 160 presentations in the field of detection of radioactive materials. He holds three U.S. patents on the development of methods and materials for the detection of radioactivity in the environment. Additionally Prof. DeVol has helped to bring in over \$8M in externally funded research of which \$4.5M was directly attributed to him in his 20 years on the faculty at Clemson University.

EDUCATION

1988-1993 University of Michigan, Ph.D. Nuclear Engineering
1987-1988 University of Michigan, M.S. Nuclear Engineering
1982-1987 Ohio State University, B.S. Engineering Physics

PROFESSIONAL POSITIONS

2012-Present: Toshiba Professor of Nuclear Engineering, Department of Environmental Engineering and Earth Sciences, Clemson University
2006-2011: Professor, Environmental Engineering and Earth Sciences, Clemson University
2001-2006: Associate Professor, Environmental Engineering and Science, Clemson University
1995-2001: Assistant Professor, Environmental Engineering and Science, Clemson University
1993-1995: Assistant Professor/Research Associate, Department of Environmental Systems Engineering, Clemson University

SELECT RECENT PUBLICATIONS

Dogan, M. Moysey, S.M.J., Ramaker, R.M., DeVol, T.A., Beekman, F.J., Groen, H.C. Powell, B.A. "High-Resolution 4D Preclinical Single-Photon Emission Computed Tomography/X-ray Computed Tomography Imaging of Technetium Transport within a Heterogeneous Porous Media," *Environ. Sci. Technol.* DOI: 10.1021/acs.est.6b04172, (2017)
Duval, C.E., DeVol, T.A., Husson, S.M., "Extractive scintillating polymer sensors for trace-level detection of uranium contaminated ground water," *Analytica Chimica Acta* 947 1-8 (2016).

- Duval, C.E., DeVol, T.A., Wade E.C., Seliman, A.F., Bliznyuk, V.N. Husson, S.M., “Stability of Polymeric Scintillating Resins Developed for Ultra-Trace Level Detection of Alpha- and Beta-Emitting Radionuclides,” *Journal of Radioanalytical and Nuclear Chemistry* 310 (2) 583-588, 2016.
- Bliznyuk, V.N., Seliman, A.F., Ishchenko, A., Derevyanko, N., DeVol, T.A., “New efficient organic scintillators derived from pyrazoline” *Applied Materials & Interfaces*, 8 (20) 12843-12851, 2016.
- Chapman, M., Marchewka, M., Roberts, S., Schmitt, J., McMillen, C., Kucera, C., DeVol, T., Ballato, J., and Jacobsohn, L., “Luminescence and scintillation enhancement of Y₂O₃:Tm transparent ceramics through post-fabrication thermal processing,” *Journal of Luminescence*, 165, 56-61, 2015.
- Seliman, A.F., Bliznyuk, V.N., Husson, S.M., DeVol, T.A., “Development of polymerizable 2-(1-naphthyl)-5-phenyloxazole scintillators for ionizing radiation detection,” *J. Mater. Chem. C.*, V3 #27, 7053-7061, 2015.
- Bliznyuk, V.N., Duval, C.E., Apul, O.G., Seliman, A.F., Husson, S.M., DeVol, T.A., “High porosity scintillating polymer resins for ionizing radiation sensor applications,” *Polymer*, 56 271-279, 2015.
- Hixon, A.E., DiPrete, D.P., DeVol, T.A., “Development of a Colorimetric Test for Quantification of Uranium in Drinking Water,” *Journal of Radioanalytical and Nuclear Chemistry*, V 298, #1, 419-427, 2013.
- Seliman, A.F., Samadi, A., Husson, S.M., Borai, E. H., DeVol, T.A. Per technetate Selective Scintillating Ion-Exchange Resins Prepared by ATRP for On-Line Water Monitoring. *Anal. Chem.* 83, 4759–4766, 2011.
- DeVol, T.A., Pruitt, L., Gaillard J., Sexton, L., Cordaro, J. Rao, A., Serkiz, S.M., “Toward a carbon nanotube anode gas-filled radiation detector,” *Nuc. Instr. Meth. Physics*, A 652, 310-314, 2011.
- Jacobsohn, L. G., McPherson, C.L., Sprinkle, K. B., Yukihiro, E.G., DeVol, T. A., Ballato, J. M., “Scintillation of Rare Earth Doped Fluoride Nanoparticles,” *Applied Physics Letters*, Vol. 99, 113111 (2011).
- Ayaz-Maierhafer, B., DeVol, T.A., “Determination of Absolute Detection Efficiencies for Detectors of Interest in Homeland Security,” *Nuclear Instruments and Methods*, A579, 410-413 (2007).

SELECTED PROFESSIONAL SERVICE, AFFILIATIONS, AND HONORS

Coordinator of the Accreditation Board for Engineering and Technology (ABET) Applied Science Accreditation Commission (ASAC) accredited Environmental Health Physics program at Clemson University.

Elda E. Anderson award, presented by the Health Physics Society, 2004.

Memberships: American Nuclear Society, 1987–present; Health Physics Society, 1993–present; Institute of Electrical and Electronics Engineering Society, 1990–present.

Engineer-in-Training, South Carolina Board of Registration, 1999.

Certified Health Physics, American Board of Health Physics, 1997.