

AMERICAN FILTRATION & SEPARATIONS SOCIETY



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Prof. Rigoberto Castillo Advincula

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Dr. Rigoberto Advincula is a Governor's Chair Professor at Oak Ridge National Laboratory and the University of Tennessee. He is the Group Leader of the Macromolecular Nanomaterials Group at the Center for Nanophase Materials Sciences (CNMS), ORNL. He was a Full Professor (now Adjunct) at Case Western Reserve University.

He is an American Chemical Society (ACS) Fellow, Fellow of the Polymer Chemistry Division, Fellow of the PMSE Division, and Fellow of the Royal Society of Chemistry (FRSC). He is a Herman Mark Scholar (POLY) and Arthur Doolittle (PMSE) awardee of the ACS. He is Past-Chair of the POLY Division, ACS, and past President of the Philippine American Academy of Science and Engineering (PAASE). He is a member of the World Economic Forum (WEF) Futures Council (2016). He is co-President 2023 of the Pacific Polymer Federation (PPF).

He is Editor in Chief of MRS Communications and previously Editor of Reactive and Functional Polymers and Associate Editor of Polymer Reviews. He has been on the Editorial Advisory Board of Macromolecules, Chem. of Materials, and ACS Applied journals. He has published ~ 600 papers (H index = 77), and 15 patents, and given ~700 invited and contributed talks, lectures, seminars, and several plenary lectureships.

His areas of research are in polymers, nanoscience, organic and hybrid materials, biotechnology, ultrathin films, coatings, oil and gas, 3D printing, and corrosion: (1) synthesis of new functional nanomaterials at surfaces and interfaces, (2) applications of surface sensitive spectroscopic, microscopic, optical, and electrochemical analytical techniques, (3) devices and sensor applications of ultrathin films and particles, (4) biomaterials (5) highly performance polymers and additives, and (6) renewable-sustainability engineering and 3D printing with funding from National Science Foundation, the Welch Foundation, the Department of Energy, and several industry grants.

He has had Visiting Professor positions at the Max Planck Institute for Polymer Research (MPI-P), the Austrian Institute of Technology (AIT), Waseda University, Keio University, McGill University, and the National University of Singapore.

He is also most passionate about training young minds in science and engineering careers. He has trained over 40 Ph.D. Graduates, 42 MS/Ph.D. students, 20 Post-docs, 150 undergraduates, and 80 high school students in his group. A number have become successful Professors, R&D Managers, and Ph.D. students, and many have won awards in their presentations at national meetings during their time in his group.