

MENAS S. VRATSANOS

CHIEF SCIENTIST / RESEARCH FELLOW

PROFILE



EXPERIENCE

Research Fellow • Intertek • 2011 – Present

Responsible for the development, execution, and management of non-standard analytical test plans for key clients, especially as they relate to polymers. Author/present many project reviews. Support the business by applying analytical science to solve industrial problems. Interface with customers to understand their analytical issues and develop customized solutions. Lead the development of relationships with external partners with the goal of creating revenue over the longer term. Lead internal research effort. Coach and mentor the technical team across all levels of the organization.

OVERVIEW

Specializes in developing relevant polymer structure-property-performance relationships. Works with customers to understand their needs and develop custom analytical solutions.

Senior Scientist / High Throughput Experimentation Manager / Group Head for Polymer Materials Analysis Group • Air Products and Chemicals, Inc. • 1987 – 2010

Provided support to epoxies, polyurethane foam and elastomers, and new polymer platforms, with the goal of developing structure-property type relationships. Managed the newly-formed High Throughput Experimentation (HTE) group. Inventor or co-inventor on eight patents and one trade secret. Maintained budget and drove technical development for the HTE group. Oversaw the conception, development, and execution of high throughput platforms in the area of polymer adhesion, surfactant performance, and chemicals for electronics. Developed a proprietary, state-of-the-art rheometer for measuring viscosity build over time. Oversaw the operation of the rheological, thermal, infrared, and wet chemistry teams in the Corporate Analytical group, including capital planning and individual performance appraisals. Responsible for developing appropriate experimental plans and polymer structure-property relationships.

ACHIEVEMENTS

Publications: 24

Patents: 8

Trade Secret: 1

Conference Presentations: 6

Intern • E. I. du Pont de Nemours and Company • 1982

Helped develop processing methods for Kevlar-based thermoplastic composites. Characterized physical properties of resulting composites. Presented results in seminar.



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Intern • Exxon Chemical Company • 1981

Developed test methods for measuring impact properties of glass-reinforced polyester composites. Presented results in seminar.

EDUCATION / PROFESSIONAL ACCREDITATIONS

Ph.D. in Polymer Science and Engineering • 1987 • University of Massachusetts • Amherst, MA

M.Sc. in Polymer Science and Engineering • 1984 • University of Massachusetts • Amherst, MA

B.Sc. in Chemical Engineering • 1982 • Columbia University • New York, NY

NCMC (NIST Combinatorial Methods Center) Member

American Chemical Society (ACS) Member

Society for Plastics Engineers (SPE) Member

Society for Plastics Institute (SPI) Member

Society for the Advancement of Material and Process Engineering (SAMPE) Member

Tau Beta Pi Member

TECHNICAL SKILLS / LEADERSHIP

Inventor/co-inventor of eight patents and one trade secret. Mentor technical staff across the organization, leading by example to help develop solutions to meet client needs.



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