

Wantinee Viratyaporn

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OBJECTIVE: A research and development position in the field of polymer processing, synthesis, or characterization.

EDUCATION:

PhD – Materials Science & Engineering – concentration in polymer materials

(January. 2010)

Rutgers, the State University of New Jersey, New Brunswick, NJ

Dissertation: *“Impact Resistance and Interphase Characterization of Polymer Nanocomposites”* Advisor: Professor Richard Lehman

Overall GPA: 3.842

M.Sc. – Materials Science & Engineering – concentration in polymer materials

(January 2008)

Rutgers, the State University of New Jersey, New Brunswick, NJ

Overall GPA: 3.833

B.E. – Petrochemical and Polymeric Materials (March 2004)

Silpakorn University, Thailand

Overall GPA: 3.15

EXPERIENCE:

AMIPP – Advanced Polymer Center, Rutgers University School of Engineering, Piscataway, NJ (August 2006 – Present)

(Research Center)

Research Associate – Polymer Development and Synthesis

Planned, organized and conducted laboratory research on advanced polymer materials.

Processing, physical characterization, and spectroscopic analyses were areas of specialization. One major program addressed the synthesis of PMMA polymers in the presence of nanoparticles followed by Raman characterization of the critical interphase region. Additional studies were focused on engineering structural properties, particularly the development of improved impact resistance in olefinic materials

S.K. Polymer Co., Ltd., Thailand (May 2003—May 2004)

(Manufacturer of rubber products)

Undergraduate Senior Research

Characterized mold conditioning compounds and developed compounds with enhanced performance, higher productivity, and greater cost effectiveness.

(continued...)

C.A. Petrochemical Co., Ltd., Thailand (Summer, 2003)

(Manufacturer of PVC pipes)

Summer Internship—Quality Control Technician

Performed quality control of PVC materials on the production line during manufacture to assure that products met customer specifications. Developed in-depth understanding of the PVC processing.

PROFESSIONAL SKILLS SUMMARY:

- Compounding and processing polymers and polymer composites using extruder, compression molding, injection molding, and high shear dispersive and distributive mixing.
- Skilled in polymer physics and their measurements, including MDSC, Rheometry, and TMA.
- Experienced in evaluation of polymeric material using Raman and Infrared Spectroscopy
- Knowledgeable in the area of polymer synthesis, particularly bulk radical polymerization of acrylates.

PUBLICATIONS AND PRESENTATIONS:

1. W. Viratyaporn, R. Lehman, J. Joshi, “Effect of Composition and Processing on the Impact Behavior of Certain Immiscible Polymer Blends”, J. App. Polym. Sci. -- submitted
2. W. Viratyaporn and R. Lehman, “Impact Resistance And Raman Characterization of Al₂O₃/ZnO Poly(Methyl Methacrylate) Nanocomposites,” Proceedings of SPE ANTEC (2009)
3. X. Luo, R. Ou, D.E. Eberly, A. Singhal, W. Viratyaporn and P.T. Mather, “A Thermoplastic/Thermoset Blend Exhibiting Thermal Mending and Reversible Adhesion,” ACS Applied Materials and Interfaces 1 (3) 612-620 (2009).
4. W. Viratyaporn, R. Lehman, J. Joshi, “Impact Resistance of Selected Immiscible Polymer Blends”, Proceedings of SPE ANTEC (2007)
5. N. Twu, W. Viratyaporn, R. Lehman, “Fiber Reinforced Multiphase Polymer Composites By In-situ Fiber Alignment”, Proceedings of MRS Fall Meeting (2007)

RELEVANT COURSES:

- Polymer Science & Engineering I
- Polymer Science & Engineering II
- Manufacturing Processes I
- Polymer Synthesis
- Properties of Polymers
- Rubber Chemistry and Technology
- Advanced Organic Chemistry I
- Electron Scanning Spectroscopy
- Electron Spectroscopy

REFERENCES

Available upon request.