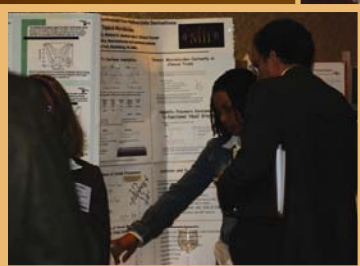


Macromolecules and Interfaces Institute at Virginia Tech (MII) is an interdisciplinary group committed to continuing the growth and advancing the stature of the existing, highly-ranked macromolecular science and engineering graduate degree granting program at Virginia Tech. We are committed to fostering a dynamic environment that enthusiastically promotes the recruitment and education of high-quality students; actively initiates and conducts timely research at both the basic and applied levels; and vigorously pursues continuing education and economic growth through outreach activities with industry and government agencies.

Over the years the macromolecular and interfacial science and technology focus has grown to include faculty from 14 departments within five colleges at Virginia Tech. During the past 3 year period, MII faculty have been responsible for nearly \$17 million of actual research expenditures. Many of these projects are in cooperation with industry.



Graduate and undergraduate students present their research at national meetings and at MII's Technical Conference and Review.

The faculty and students of the Macromolecules and Interfaces Institute are especially appreciative of our Industrial Affiliate members and industrial research sponsors. The financial assistance provided by the companies that are associated with MII is essential to the health of interdisciplinary macromolecular science and engineering education and research on campus. These contributions are a strong signal to the Virginia Tech community that our mission is relevant to today's polymeric materials dependent enterprises.

If your company is not a member of the MII Industrial Affiliates or you are not familiar with our current activities and efforts we invite you to explore our web page at <http://www.mii.vt.edu> and better yet come to Blacksburg to our beautiful campus and experience the enthusiasm of our students and explore with our world renown faculty ways to build productive relationships.

For more information, contact:

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**Macromolecules and Interfaces Institute
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Virginia Tech does not discriminate against employees, students, or applicants on the basis of race, sex, disability, age, veteran status, national origin, religion, political affiliation, or sexual orientation. Anyone having questions concerning discrimination should contact the Equal Opportunity/Affirmative Action Office.

Industrial Affiliates Program



*Linking Industry to
Academia to
Educate the Next
Generation!!*

**Macromolecules and Interfaces Institute
at Virginia Tech**



Blacksburg, Virginia 24061 USA

Selected Current Research Topics

• Specific Applications

Adhesives & Sealants
 Bio-Adhesion & Bio-Polymers
 Civil Infrastructure
 Coatings
 Construction and Wood Products
 Elastomers
 Fuel Cell Technology
 Microelectronics
 Nanotechnology
 Transportation: Automobile, Aircraft, Ship
 Photochemical Processes
 Electrospinning
 Medical Diagnostics Materials
 Therapeutic Delivery Materials
 Tissue Engineering
 Solar Cell Technology

• Macromolecular Synthesis

High Performance & Cost Effective Adhesives & Resins
 Fire Retardant Polymers
 Novel Polymer Chemistries
 Tailored Architectures
 Step-Growth & Chain Polymerization
 Olefin Catalysis
 Supramolecular Chemistry
 Multiphase Copolymers
 Novel Branched Topologies
 Magnetic Nanoparticles
 Ion Containing Polymers
 Sustainable Chemistries

• Interfacial Science

Surface & Failure Analysis
 Environmentally-Friendly Surface Pretreatments
 Functional Self-Assembled Monolayers
 Characterization of the Interphase
 Environmental Effects

• Macromolecular Characterization

Monitoring Cure/Drying
 Mechanical, Electrical, Thermal Properties
 Molecular Migration and Phase Segregation
 Effects of Fillers, Additives, Reinforcement
 Fracture, Fatigue, & Durability
 Environmental Degradation
 Test Method Development
 Molecular Weight Measurements

• Polymer Processing

Extrusion
 Injection Molding
 Fiber Spinning

• Connection to Advanced and Applied Polymer Processing Institute (AAPPI) at the Institute for Advanced Learning & Research (IALR), Danville, VA



Levels of Participation

Membership Benefits		Contributing* (\$10,000/year)	Supporting** (\$25,000/year)	Sustaining (\$40,000/year)
Education and Employee Training***				
→	Web-based training modules			
→	Complimentary tuitions	2	4	6
→	Discount on additional enrollees	✓	✓	✓
→	Annual Adhesion Science Short Course			
→	Complimentary tuitions	1	2	3
→	Reduced tuitions (50%)	2	4	6
→	Annual Efficient Testing Short Course			
→	Complimentary tuitions	✗	1	2
→	Reduced tuitions (50%)	✗	2	3
Communications and Updates				
→	Networking opportunities across MII and the entire University	✓	✓	✓
→	Access to "Members Only" web site with research reports and advanced publications	✓	✓	✓
→	Invitations to seminars and other MII events	✓	✓	✓
Student Interactions and Support				
→	Special assistance with student recruitment	✓	✓	✓
→	Option to have industrial representative on graduate student committees	✗	✓	✓
→	Named student fellowship/scholarship	✗	✓	✓

* To facilitate enhanced interactions, companies funding significant research through the Institute will automatically become a "Contributing Member" and a one-level upgrade, with the exception of the named student award

** The "Supporting Membership" level will be assigned to any company that provides a graduate fellowship.

*** The well-know polymer science short courses are administered by the American Chemical Society, NOT MII.

Macromolecules and Interfaces at Virginia Tech: Industrial Affiliates Program

The Industrial Affiliates program is designed to foster closer working relationships between industry and the Macromolecules and Interfaces Institute at Virginia Tech. Industrial Affiliates are given direct access to the following opportunities, including:

- Employee training programs
- Timely, targeted communications
- Enhanced interactions with students
- Input to and from research programs

Industrial Affiliate membership is available at several levels, each of which carries a specific number of complimentary or reduced fee benefits as shown in the table to the left.

Funds from Industrial Affiliates play an important role in supporting our research and educational efforts. These funds help to:

- Support student fellowships
- Enhance student development
- Communicate with member companies
- Enhance on-campus interactions

Support from our Industrial Affiliates has helped build the stature of macromolecular and interfacial research at Virginia Tech, and will allow us to continue to educate future generations of scientists and engineers in this interdisciplinary field.

