QUICK FACTS

» Graduate Programs
  Materials Science
  Materials Science & Engineering
  Polymer Science

» Degrees Offered
  M.S., MEng., Ph.D.

» Students
  >150 graduate students perform research in IMS

» Research Funding FY14
  $7.6M in research expenditures
  $4.2M in new awards

» Publications
  235 journal papers in 2013/14

» Industrial Associates
  30 member companies
  >50 industrial sponsors

» Faculty
  37 plus 5 emeriti housed in IMS
  60+ affiliated UConn faculty

» Staff
  13 administrative Staff
  11 scientific/technical Staff

» Alumni
  >925 total
  >330 live in Connecticut

» Institute Director
  Dr. Steven L. Suib

Institute of Materials Science
97 North Eagleville Road, Unit 3136
Storrs, CT 06269-3136
Phone: 860.486.4623
Fax: 860.486.4745
www.ims.uconn.edu

FACT SHEET 2014

Research Instrumentation
The Institute houses a wide range of advanced research instruments and facilities. These include:
• atomic force microscopy
• computational modeling
• electron microscopy (SEM & TEM)
• gas chromatography
• high field characterization
• IR, Raman and UV spectroscopy
• laser spectroscopy
• nanobionics device fabrication facility, clean room
• NMR spectrometry
• optical microscopy
• polymer rheology
• surface analysis (AES & XPS)
• thermal analysis
• X-ray diffraction & spectroscopy (EDS, WDS, XRD, SAXS)

Graduate Programs
IMS is a key resource for graduate research students from across engineering and the sciences. The programs for three graduate fields of study are based within the Institute.

1. Materials Science
This is a flexible interdisciplinary program with input from the Departments of: Chemical and Biomolecular Engineering, Chemistry, Electrical and Computer Engineering, Materials Science and Engineering, Mechanical Engineering, Molecular and Cell Biology, and Physics.
(Program Lead: Dr. Steven L. Suib)

2. Materials Science & Engineering
This program is offered through the Department of Materials Science and Engineering in the School of Engineering and concerns the production, processing, characterization, selection, design and modeling of materials.
(Program Lead: Dr. S. Pamir Alpay)

3. Polymer Science
This interdisciplinary graduate program has faculty from the Departments of: Chemical and Biomolecular Engineering, Chemistry, Molecular and Cell Biology, and Physics. Areas of particular interest include: polymer synthesis and properties, composites, biomaterials, devices, and computation.
(Program Lead: Dr. Douglas Adamson)
FACT SHEET 2014

IMS Associated Faculty

Chemical & Biomolecular Engineering
Dr. George M. Bollas
Dr. Kelly A. Burke
Dr. Anson W. K. Ma
Dr. Jeffrey R. McCutcheon
Dr. Yu Lei
Dr. William E. Mustain
Dr. Mu-Ping Nieh
Dr. Richard S. Parnas
Dr. Leslie Shor
Dr. Luyi M. Sun
Dr. Julia A. Valla

Biomedical Engineering
Dr. Kazunori Hoshino

Materials Science & Engineering
Dr Mark Aindow
Dr. S. Pamir Alpay
Dr. Harold D. Brody
Dr. C. Barry Carter
Dr. Avinash M. Dongare
Dr. Pu-Xian Gao
Dr. Rainer J. Hebert
Dr. Bryan D. Huey
Dr. Theodore Z. Kattamis
Dr. Seok-Woo Lee
Dr. Radenka Maric
Dr. Serge M. Nakhmanson
Dr. Ramamurthy Ramprasad
Dr. George A. Rossetti Jr.
Dr. Mei Wei

Mechanical Engineering
Dr. Baki Cetegen
Dr. Wilson K.S. Chiu
Dr. Robert X. Gao
Dr. Eric H. Jordan
Dr. Kazem Kazerounian
Dr. Leila Ladani
Dr. George Lykotrafitis
Dr. Michael T. Pettes

Pharmaceutical Sciences
Dr. Robin H. Bogner
Dr. Diane J. Burgess
Dr. Bodhisattwa Chaudhuri
Dr. Devendra Kalonia
Dr. Debra A. Kendall
Dr. Xiuling Lu
Dr. Michael Pikal

Physics
Dr. Andrey V. Dobrynin
Dr. Elena E. Dormidontova
Dr. Niloy Dutta
Dr. Gayanath W. Fernando
Dr. George Nicholas Gibson
Dr. Philip L. Gould
Dr. Douglas S. Hamilton
Dr. Menka Jain
Dr. Jason Hancock

Dr. Menka Jain
Dr. Richard T. Jones
Dr. Jeffrey S. Schweitzer
Dr. Boris Sinkovic
Dr. William C. Stwalley
Dr. Barrett O. Wells

UConn Health Center
Dr. Douglas J. Adams
Dr. A. Jon Goldberg
Dr. J. Robert Kelly
Dr. Yusuf Khan
Dr. Lisa Tiina Kuhn
Dr. Sangamesh Kumbar
Dr. Cato T. Laurencin
Dr. Lakshmi S. Nair
Dr. Syam Nukavarapu

Emeritus/Retired Faculty
Dr. Thomas Anderson
Dr. James P. Bell
Dr. Philip E. Best
Dr. Joseph I. Budnick
Dr. Anthony DiBenedetto
Dr. Steven A. Boggs
Dr. Harry Frank
Dr. James Galligan
Dr. Maurice Gell
Dr. William Hines
Dr. Lawrence A. Kappers
Dr. Quentin Kessel
Dr. James Knox
Dr. Harris L. Marcus
Dr. Robert Northrop
Dr. Arthur McEvily
Dr. Douglas Pease
Dr. Donald Potter
Dr. Dan. A. Scola
Dr. Montgomery T. Shaw
Dr. Winthrop W. Smith
Dr. Chong Sook P. Sung

IMS Scientific Staff
Mr. Mark Dudley
Dr. Marcus Giotto
Dr. Jack Gromek
Dr. Edward Kurz
Mr. Gary Lavigne
Dr. Fiona Leek
Dr. Laura Pinatti
Dr. Roger Ristau
Ms. JoAnne Ronzello
Dr. Lichun Zhang
Dr. Heng Zhang

IMS resident faculty are indicated in bold