

FACT SHEET 2017

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 FY15

\$6.6M in research expenditures
 \$4.2M in new awards

» Publications

307 journal papers in 2015/16

» Industrial Associates

30 member companies
 >50 industrial sponsors

» Faculty

30 plus 6 emeriti housed in IMS
 60+ affiliated UConn faculty

» Staff

12 administrative/support staff
 8 scientific/technical staff

» Alumni

>941 total
 >335 live in Connecticut

» Institute Director

Dr. Steven L. Suib

Institute of Materials Science
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 Storrs, CT 06269-3136
 Phone: 860.486.4623
 Fax: 860.486.4745
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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)

Industrial Collaboration

The Institute supports the economic development of the state and the surrounding region by collaborating with local industry in three modes:

- Small one-off projects where industry needs scientific/technical support beyond that available in commercial service laboratories.
- The Industrial Affiliates Program (Director: Dr. Paul Nahass, Associate Director: Dr. Hatice Bodugoz Senturk)—a subscriptionbased program of ≈30 companies having an ongoing working relationship with IMS.
- Large collaborative projects, often involving major federal support.

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. Rajeswari M. Kasi)

FACT SHEET 2017

IMS Associated Faculty

Biomedical Engineering

Dr. Ki Chon
 Dr. Martin Han
 Dr. Kazunori Hoshino
 Dr. Cato T. Laurencin
 Dr. Sina Shahbazmohamadi
 Dr. Wendy Vanden Berg-Foels

Chemical & Biomolecular Engineering

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

Chemistry

Dr. Douglas H. Adamson
Dr. Alexandru D. Asandei
 Dr. William F. Bailey
 Dr. Jie He
Dr. Rajeswari Kasi
 Dr. Challal Vijaya Kumar
Dr. Yao Lin
 Dr. Tomoyasu Mani
Dr. Fotios Papadimitrakopoulos
 Dr. Eugene Pinkhassik
 Dr. Rebecca Quardokus
 Dr. Jessica Rouge
 Dr. James F. Rusling
Dr. Thomas A. P. Seery
Dr. Gregory Sotzing
Dr. Steven L. Suib
 Dr. Jing Zhao

Civil & Environmental Engineering

Dr. Jeong-Ho Kim
 Dr. Baikun Li
 Dr. Ramesh Malla
 Dr. Kay Wille
 Dr. Arash E. Zaghbi
 Dr. Wei Zhang

Electrical & Computer Engineering

Dr. Rajeev Bansal
Dr. Yang Cao
 Dr. Maria Chrysochoou
 Dr. Ali Gokirmak
 Dr. Faquir C. Jain
 Dr. Helena Silva
 Dr. Geoff Taylor

Marine Sciences

Dr. Heidi M. Dierssen

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. Cato T. Laurencin
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. Xu Chen
 Dr. Wilson K. S. Chiu
 Dr. Kazem Kazerounian
 Dr. Ying Li
 Dr. George Lykotrafitis
 Dr. Thanh D. Nguyen
 Dr. Julian A. Norato
 Dr. Michael T. Pettes
 Dr. David M. Pierce
 Dr. Savas Tasoglu
 Dr. Dianyun Zhang

Molecular & Cell Biology

Dr. James L. Cole
 Dr. Kenneth M. Noll
 Dr. Victoria L. Robinson
 Dr. Carolyn M. Teschke

Nutritional Sciences

Dr. Yangchao Luo

Pathobiology

Dr. Mazhar I. Khan

Plant Science & Landscape Architecture

Dr. Cristian P. Schulthesis

Physics

Dr. Elena E. Dormidontova
 Dr. Niloy Dutta
 Dr. Gayanath W. Fernando
 Dr. George Nicholas Gibson
 Dr. Philip L. Gould
 Dr. Douglas S. Hamilton
Dr. Jason Hancock
Dr. Menka Jain
 Dr. Richard T. Jones
 Dr. Jeffrey S. Schweitzer
 Dr. Boris Sinkovic
Dr. Barrett O. Wells

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

UConn Health Center

Dr. Douglas J. Adams
 Dr. A. Jon Goldberg
 Dr. J. Robert Kelly
 Dr. Yusuf Khan
 Dr. Liisa Tiina Kuhn
 Dr. Sangamesh Kumbar
 Dr. Cato T. Laurencin
 Dr. Wai Hong (Kevin) Lo
 Dr. Lakshmi S. Nair
 Dr. Syam Nukavarapu

Emeritus/Retired Faculty

Dr. Thomas Anderson
 Dr. James P. Bell
 Dr. Philip E. Best
 Dr. Robert R. Birge
 Dr. Joseph I. Budnick
 Dr. Anthony DiBenedetto
 Dr. Steven A. Boggs
 Dr. Harry Frank
 Dr. James Galligan
 Dr. Norman Garrick
 Dr. Maurice Gell
 Dr. William Hines
 Dr. Eric H. Jordan
 Dr. Lawrence A. Kappers
 Dr. Quentin Kessel
 Dr. James Knox
 Dr. Harris L. Marcus
 Dr. Matthew Mashikian
 Dr. Robert Northrop
 Dr. Arthur McEvily
 Dr. Douglas Pease
 Dr. Donald Potter
 Dr. Wolf-Dieter Reiter
 Dr. Dan A. Scola
 Dr. Montgomery T. Shaw
 Dr. Winthrop W. Smith
 Dr. William C. Stvalley
 Dr. Chong Sook P. Sung

IMS Scientific Staff

Dr. Hatice Bodugoz Senturk
 Mr. Mark Dudley
 Mr. Gary Lavigne
 Dr. Paul Nahass
 Dr. Laura Pinatti
 Dr. Roger Ristau
 Ms. JoAnne Ronzello
 Mr. Jeffrey Roth
 Dr. Lichun Zhang

IMS resident faculty are indicated in bold