

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

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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. Challa 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. Zaghi
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. Robert X. Gao
Dr. Kazem Kazerounian
Dr. Leila Ladani
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

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

Plant Science & Landscape Architecture

Dr. Cristian P. Schulthess

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

UConn Health Center

Dr. Douglas J. Adams
Dr. A. Jon Goldberg
Dr. J. Robert Kelly
Dr. Yusuf Khan
Dr. Liisa Tiina Kuhn
Dr. Sangamesh Kumbhar
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. Stwalley
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