MISSION STATEMENT

The primary mission of the Imaging Technology Group (ITG) is to provide Beckman researchers with state-of-the-art imaging facilities in the Microscopy suite and the Visualization lab. A secondary focus of the group is to develop advanced imaging technologies, primarily in the area of microscope control and automation.
STAFF

DENIS FELLMANN joined the ITG in August as a Visiting Research Engineer and is working on the automated microscopy technology development project.

YUANXIN ZHU joined the ITG in September as a Postdoctoral Research Associate and is working on the automated microscopy technology development project.

ALEX LAZAREVICH joined the ITG in October and is working on software development on the information technology for outreach project.

DANA STODGEL worked as an undergraduate hourly on the information technology for outreach project. She graduated in December.

EQUIPMENT

VMIL

WORKSTATIONS
- INTERGRAPH VX10e
- MACINTOSH G4 WORKSTATIONS (2)

IMAGING
- LIGHTSCRIBE 3D SCANNER
- GEOMETRIX 3Sscan 3D OBJECT SCANNER
- GENISYS Xs 3D PRINTER

AUDIO/VIDEO
- CANON XL1 MINIDV CAMCORDER
- DVD AUTHORING SYSTEM
- TINY WIRELESS VIDEO CAMERA

MICROSCOPY SUITE

AFM
- A NEW COMPUTER WITH WINDOWS NT AND THE LATEST AFM SOFTWARE: HAS BEEN INSTALLED.

- A SET OF ELECTRIC FORCE MICROSCOPE TIPS (MESP) HAVE BEEN PURCHASED.

ULTRAMICROTOME
- TWO NEW DIAMOND KNIVES HAVE BEEN PURCHASED FROM MicroSTAR TECHNOLOGIES.

CARBON EVAPORATOR
- A FILM THICKNESS MONITOR AND DUAL ELECTRODES HAVE BEEN ADDED ENABLING THERMAL VAPOR DEPOSITION OF TWO MATERIALS WITHOUT BREAKING THE VACUUM.

CONFOCAL
- A NEW LEICA SP2 INVERTED CONFOCAL MICROSCOPE WITH SPECTRA PHYSICS MILLENNIA XS/TUSunami Fs LASER HAS BEEN PURCHASED AND WILL BE INSTALLED IN FEBRUARY.

DARKROOM
- 2 NEW EDWARDS VACUUM PUMPS WITH INTEGRAL ANTI-SUCKBACK VALVES HAVE BEEN PLACED ON THE FILM DISICCATORS IN THE DEVELOPING DARKROOM.

ESEM
- AN EPSON STYLUS PHOTO 1270 COLOR/B&W PRINTER HAS BEEN INSTALLED ALLOWING USERS TO PRINT MICROGRAPHS AND EDS PLOTS DIRECTLY FROM THE ESEM CONSOLE.
- A NEW ROBINSON SERIES 6 BACKSCATTERED ELECTRON DETECTOR (BSED) HAS BEEN INSTALLED.

FLUORESCENCE
- A NEW cy5 FILTER SET WITH A 640 NM EXCITATION WAVELENGTH AND A 680NM EMISSION WAVELENGTH HAS BEEN PURCHASED.
JANUARY 13, 2000
“QX3: A Dissecting Scope at one tenth the price”
Charles Conway, University High School Student,
Bugscope Project, ITG,
Beckman Institute

JANUARY 20, 2000
“Extraction of Microbial 16S rRNA Gene
Sequences From Hot Spring Travertine”
Bruce W. Fouke, Ph.D., Assistant Professor,
Department of Geology,
University of Illinois

JANUARY 27, 2000
“Introduction to the Beckman Microscopy Suite”
Bridget Carragher, Director, Imaging Technology
Group, Beckman Institute - UIUC

FEBRUARY 3, 2000
“Psuedo-color Stereograms from the ESEM”
Daniel Weber, Information Technologies, Imaging
Technology Group, Beckman
Institute, UIUC

FEBRUARY 10, 2000
“Deformable Methods for Brain Image
Segmentation”
Mark Skouson, Image Formation and Processing
Group, Beckman Institute

FEBRUARY 17, 2000
“Printing Physical Models with the Genisys Xs”
Jo Wozniak, Research Programmer, VMIL,
Imaging Technology Group, Beckman Institute - UIUC

FEBRUARY 24, 2000
“The Internet Atlas of Histology”
Benjamin Williams, Assistant Professor, Cell &
Structural Biology

MARCH 2, 2000
“A Brief Tutorial on Densitometry”
Clint Potter, Director, Imaging Technology Group,
Beckman Institute - UIUC

MARCH 9, 2000
“Beckman Institute Library:
An Overview of Information Resources and
Services”
Kathy Bush, Library Operations Assistant at the
Beckman Library

MARCH 23, 2000
“Introduction to ITG Darkroom Facilities”
Scott Robinson, Senior Research Engineering,
Imaging Technology Group, Beckman Institute - UIUC

MARCH 30, 2000
“Real-time Streaming in the Argus Project”
Lilian Fernandes, Graduate Research Assistant,
Beckman Institute

APRIL 6, 2000
“Slivers of Flowerpots: Preparing the Surface of
Single Crystal High Temperature Superconductors
using the Ultracut”
Betsy Pugel, Graduate Research Assistant,
Department of Physics, UIUC

APRIL 13, 2000
“HDF5”
Mike Folk, Program Manager, Scientific Data
Technologies Group, NCSA

APRIL 20, 2000
“Selecting Landmarks and Visual-based
Navigation for Mobile Robots”
Ricardo Swain-Oropeza, Postdoctoral Research
Associate, Department of
Computer Science, Beckman Institute

APRIL 27, 2000
“BioCORE: A Collaboratory for Structural
Biology”
Kirby Vandivort, Research Programmer,
Theoretical Biophysics Group, Beckman Institute

MAY 4, 2000
“Automated Filament Selection and Targeting for
Automated Electron Microscopy”
Clint Potter, Director, Imaging Technology Group,
Beckman Institute

MAY 18, 2000
“Silicon-Based Molecular Nanotechnology”
Joseph W. Lyding, Professor, Electrical and
Computer Engineering, Beckman Institute

MAY 25, 2000
“Microscopic Studies of Equine Osteoarthritis”
Mark Martinelli, Visiting Clinical Professor,
Veterinary Clinical Medicine
JUNE 1, 2000
“Inexpensive Stereoscopy for Windows Platforms and Web Browsers”
Daniel Weber, Senior Research Programmer, ITG

JUNE 8, 2000
“University of Illinois Research Park”
Tony G. Waldrop, Vice Chancellor for Research, UIUC & David Dressel, Associate Vice Chancellor for Administration, UIUC

JUNE 15, 2000
“Leica SP2 single and multi-photon confocal microscopes”
Linda Brown, Applications Specialist, Leica Microsystems, Inc.

JUNE 22, 2000
“Introduction to DVD-Video and its Applications”
Ben Grosser, Manager, Visualization, Media and Imaging Laboratory, ITG, Beckman Institute - UIUC

JUNE 29, 2000
“Cryo Electron Microscopy of Viruses and Methods for Computing 3D Reconstructions”
Peter C. Doerschuk, Associate Professor of Electrical and Computer Engineering, Purdue University

JULY 6, 2000
“The next generation CAVE, aLICE: a Laboratory for Immersive Cognitive Experiments”
Rachael B. Brady, Director, Integrated Systems Laboratory, Beckman Institute - UIUC

JULY 13, 2000
“The Beckman Institute Theatre”
Nancy Mansfield, Senior Research Programmer, Beckman Institute Systems Services

JULY 20, 2000
“Cheap VR with Commodity Graphics Clusters”
Ben Schaeffer, Research Programmer, Integrated Systems Laboratory, Beckman Institute - UIUC

JULY 27, 2000
“An Interactive User Interface for Automated Acquisition of Transmission Electron Micrographs”
Jim Pulokas, Research Programmer, ITG, Beckman Institute - UIUC

AUGUST 3, 2000
“Bugscope at Year 2”
Clint Potter, Director, ITG, Beckman Institute - UIUC

AUGUST 24, 2000
“SIGGRAPH 2000 Electronic Theatre Presentation”
Daniel Weber, Sr. Research Programmer, ITG, Beckman Institute – UIUC
Jo Wozniak, Research Programmer, ITG, Beckman Institute - UIUC

AUGUST 31, 2000
“Overview of the Visualization, Media and Imaging Laboratory”
Ben Grosser, Manager, Visualization, Media and Imaging Laboratory, ITG, Beckman Institute - UIUC

SEPTEMBER 7, 2000
“FSHN 101 Instructional Media Research Project”
Jim Javenkoski, Graduate Research Assistant, Department of Food Science and Human Nutrition

SEPTEMBER 14, 2000
“Migrating Real-time Interactive CAVE Applications to the WinTel Console”
George Francis, Professor of Mathematics, Campus Honors Program and Senior Research Scientist, NCSA

SEPTEMBER 21, 2000
“An Overview of MCID and the Fluorescence Microscope in the Microscopy Suite”
Glenn Fried, Senior Research Scientist, ITG, Beckman Institute - UIUC

SEPTEMBER 28, 2000
“Using the Canon XL1 mini DV Camcorder”
Jo Wozniak, Research Programmer, ITG, Beckman Institute - UIUC
OCTOBER 5, 2000
“3D Displacement Maps from 2D AFM Images Using Alias WaveFront's Maya”
Rob Gillespie, Student Consultant, ITG, Beckman Institute - UIUC

OCTOBER 12, 2000
“The Future of Electron Microscopy in Biology”
Ronald Milligan, Professor, Department of Cell Biology, The Scripps Research Institute

OCTOBER 19, 2000
“Digital Video Editing with Final Cut Pro”
Camden Miller, Systems Engineer, Apple Computer, Inc.

OCTOBER 26, 2000
“Web Interface to the Leginon Database”
Denis Fellmann, Visiting Research Engineer, Imaging Technology Group, Beckman Institute - UIUC

NOVEMBER 2, 2000
“Images of the Past: Recent Research by the Program on Ancient Technologies and Archaeological Materials (ATAM)”
Dr. Sarah Wisseman, Director, Ancient Technologies and Archaeological Materials Program - UIUC

NOVEMBER 9, 2000
“StereoInvestigator and Neurolucida 2000: An Overview”
Scott J. Robinson, Senior Research Engineer, ITG, Beckman Institute - UIUC

NOVEMBER 16, 2000
“Conformational changes of the p97 AAA ATPase during the ATPase cycle studied by cryo-electron microscopy. Advantages of automatic data collection”
Dr. Isabelle Rouiller, Postdoctoral Research Associate, The Scripps Research Institute, La Jolla, California

NOVEMBER 30, 2000
“Mathematical Imitations of Brent Collins' Sculpture”
John Sullivan, Associate Professor, Department of Mathematics, UIUC

DECEMBER 7, 2000
“A Survey of the Online Teaching Tools of WebCT 3.1”
Robert Baird, Computer Assisted Instruction Specialist, Center for Educational Technologies, UIUC

DECEMBER 14, 2000
“Condor: A High Throughput Computing Environment”
Jeff Terstiep, Chief Technical Officer, KnowledgePort Alliance, Inc., Champaign
00-001
“An Interactive User Interface for Automated Acquisition of Transmission Electron Micrographs”
Jim Pulokas, Nick Kisseberth, Clinton S. Potter, and Bridget Carragher
(Submitted to Microscopy and Microanalysis '00, August 13 - 17, 2000, Philadelphia, Pennsylvania)

00-002
“An Automated System For Maintaining Liquid Nitrogen Levels In The Gatan Cryostage”
Scott Robiinson, Glenn Fried, and Jim Pulokas
(Submitted to Microscopy and Microanalysis '00, July August 13-17, 2000, Philadelphia, Pennsylvania)

00-003
“An Integrated System For Transmission Electron Microscopy”
Bridget Carragher, Nick kisserberth, David Kriegman, Ronald Milligan, Clinton S. Potter, Jim Pulokas, and Amy Reilein
(Submitted to Microscopy and Microanalysis '00, August 13-17, 2000, Philadelphia, Pennsylvania)

00-004
“Bugscope: The Second Year of a Sustainable Remote Microscope Project for K-12 Education Outreach”
(Submitted to Microscopy and Microanalysis '00, August 13-17, 2000, Philadelphia, Pennsylvania)

00-005
“Imaging Electrochemical Controlled Chemical Gradients Using Pulsed Force Mode Atomic Force Microscopy”
G. Fried, K. Balss, and P.W. Bohn
(Submitted to Microscopy and Microanalysis '00, August 13-17, 2000, Philadelphia, Pennsylvania)

00-006
“Imaging Ultrathin Organic Films on the Nanometer Level Using Surface Plasmons”
G. Fried and P.W. Bohn
(Submitted to Microscopy and Microanalysis '00, August 13-17, 2000, Philadelphia, Pennsylvania)

00-007
“ITG Annual Report 1999”

00-008
“Formative Evaluation of Bugscope: A Sustainable World Wide Laboratory for K-12”

00-009
“Evenly Dispersed Gold Beads on TEM Grids”
Amy Reilein, Andy Belmont and Jim Pulokas

00-010
“Leginon: An automated system for acquisition of images from vitreous ice specimens”
Bridget Carragher, Nick Kisseberth, David Kriegman, Ronald Milligan, Clinton Potter, James Pulokas and Amy Reilein
(Submitted to Journal of Structural Biology, July 11, 2000)

00-011
“mol2mel – A Tool for Converting Molecular Data from Cerius® to Maya”
Benjamin Grosser
00-012
“Bugscope: A Practical Approach to Providing Remote Microscopy for Science Education Outreach”
Clinton S. Potter, Bridget Carragher, Liana Carroll, Chas Conway, Benjamin Grosser, Janet Hanlon, Nick Kisseberth, Scott Robinson, Umesh Thakkar and Daniel Weber
(Submitted to Microscopy and Microanalysis)

00-013
“Perceptual Organization as a Method for Detection and Selection of Filamentous Structures in Highly Noisy Images Acquired by Cryo-electron Microscopy”
Yuanxin Zhu, Bridget Carragher, David Kriegman, and Clinton S. Potter
(Submitted to The International Conference for Computer Vision 2001)

00-014
“Quick Start Guide to Using Final Cut Pro in the VMIL”
Benjamin Grosser

00-015
“A Quick Start Guide to printing a 3d model starting from a block of bytes”
Bridget Carragher

00-016
“Top2maya – A Tool for Converting 2D Topographical Maps to 3D Models”
Rob Gillespie

00-017
“Annual Report”
Bugscope is a second-generation educational outreach project that provides remote scientific instrumentation to K-12 classrooms. Students participating in the project can remotely control an environmental scanning electron microscope (ESEM) from their schools using the Internet and a Web browser. The project is structured so that the instrument is provided as a resource while leaving the planning, execution and control of the experiment in the hands of the teachers and the students. The classroom plans the project, mails in a specimen and on a scheduled date and time takes control of the microscope from the computers in their classroom. They use control panels launched from a web browser to move the specimen stage, change magnifications and vary imaging parameters in order to interactively acquire and view images required to fulfill the scientific goals of their proposed experiment.

**STATISTICS FOR 2000**

Total Number of Sessions: 21  
Total Number of Schools: 21  
Total Number of Images Collected: 2563  
Total Number of States Involved: 12  
All Participating States With Number of Sessions: CA – 2, FL – 5, IL – 1, KS – 1, MI – 1, NH – 1, OH – 1, OR – 1, RI – 1, TN – 3, TX – 2, WA – 1

**SESSIONS**

**JANUARY 12, 2000 - EUGENE, OR**  
School: Lane ESD  
Proposal: 2000-01  
Grade Level: Staff Development  
Teacher: Lynn Lary  
Specimen: Ladybug, fly, mosquito, ant  
Database Info: 136 images collected

**JANUARY 25, 2000 – LYNNWOOD, WA**  
School: Soundview Private School  
Proposal: 1999-087  
Grade Level: 2nd, 3rd, 6th, 7th, 8th  
Teacher: Gary Lindenstein  
Specimen: Walking sticks, moth, wasp head  
Database Info: 217 images collected

**FEBRUARY 1, 2000 – PENSACOLA, FL**  
School: Scenic Heights  
Proposal: 1999-092  
Grade Level: 4th & 5th  
Teacher: Cindy Hemphill  
Specimen: Beetle, weevil, fly, parasitic wasps  
Database Info: 94 images collected

**FEBRUARY 8, 2000 – SHILOH, IL**  
School: Shiloh Village School  
Proposal: 1999-080  
Grade Level: 1st  
Teacher: Julie Deignan  
Specimen: Field cricket and spider  
Database Info: 34 images collected

**FEBRUARY 8, 2000 – FALLBROOK, CA**  
School: Iowa Street School/Home Education  
Proposal: 2000-002  
Grade Level: K-8  
Teacher: Phil Leonelli  
Specimen: Praying mantis heads, 3 mexican fruit flies  
Database Info: 133 images collected

**FEBRUARY 1, 2000 – PENSACOLA, FL**  
School: Scenic Heights  
Proposal: 1999-092  
Grade Level: 4th & 5th  
Teacher: Cindy Hemphill  
Specimen: Beetle, weevil, fly, parasitic wasps  
Database Info: 94 images collected

**MARCH 7, 2000 – LOOKOUT MOUNTAIN, TN**  
School: Lookout Mountain Elementary School  
Proposal: 1999-087  
Grade Level: K-6  
Teacher: Jane Keegan  
Specimen: Praying mantis heads, mexican fruit flies  
Database Info: 70 images collected

**MARCH 7, 2000 – FALLBROOK, CA**  
School: Iowa Street School/Home Education  
Proposal: 2000-002  
Grade Level: K-8  
Teacher: Phil Leonelli  
Specimen: Praying mantis heads, 3 mexican fruit flies  
Database Info: 133 images collected
MARCH 22, 2000 – URBANA, IL
School: Yankee Ridge
Proposal: 2000-008
Grade Level: 2nd
Teacher: Georgette Moore
Specimen: Two spiders and two beetles
Database Info: 186 images collected

MARCH 28, 2000 – NASHVILLE, TN
School: University School of Nashville
Proposal: 2000-003
Grade Level: 1st
Teacher: Scott Merrick
Specimen: Common Name
Database Info: 100 images collected

APRIL 11, 2000 – PANA, IL
School: Lincoln School
Proposal: 2000-007
Grade Level: 5th
Teacher: David Rupert
Specimen: Honeybees
Database Info: 60 images collected

APRIL 18, 2000 – HAMPTON, NH
School: Centre Elementary School
Proposal: 2000-006
Grade Level: 1st
Teacher: Ann Claus
Specimen: Three honeybees and one bumblebee
Database Info: 117 images collected

APRIL 25, 2000 – CHAMPAIGN, IL
School: Vineyard Coop
Proposal: 2000-010
Grade Level: Multi
Teacher: Susan Nelligan
Specimen: Sulfur butterfly, 1 housefly, 2 crickets, 3 spider mites
Database Info: 160 images collected

MAY 2, 2000 – PETALUMA, CA
School: La Tercera Elementary School
Proposal: 1999-079
Grade Level: 4th
Teacher: Nickela L. Frye
Specimen: Cricket, housefly, wasp, bee and ladybug
Database Info: 189 images collected

MAY 9, 2000 – KENTWOOD, MI
School: Meadowlawn Elementary
Proposal: 1999-095
Grade Level: 4th
Teacher: Paul A. Sundstrom
Specimen: Ladybug, bee, spider
Database Info: 89 images collected

MAY 23, 2000 – NASHVILLE, TN
School: University School of Nashville
Proposal: 2000-011
Grade Level: K-4
Teacher: Scott Merrick
Specimen: Hornet, foreportion millipede, Painted Lady butterfly chrysalis
Database Info: 81 images collected

SEPTMBER 6, 2000 – TORNILLO, TX
School: Tornillo High School
Proposal: 2000-020
Grade Level: 11th & 12th
Teacher: O. Dominguez
Specimen: Flies (Various species)
Database Info: 313 images collected

SEPTMBER 19, 2000 – BASEHOR, KS
School: Basehor-Linwood High School
Proposal: 2000-021
Grade Level: 9th – 12th
Teacher: Kevin Suther
Specimen: Lacewing, plant hopper, beetle, diptera, mantis and hemipteran
Database Info: 133 images collected

OCTOBER 10, 2000 – CHARLESTOWN, RI
School: Charlestown Elementary
Proposal: 2000-018
Grade Level: K-5
Teacher: Jane Carlson-Pickering
Specimen: Punk mosquito, wasp, spider, beetle, tick and 2 bug eggs
Database Info: 73 images collected

NOVEMBER 7, 2000 – BUCYRUS, OH
School: Wynford Intermediate
Proposal: 2000-014
Grade Level: 5th
Teacher: Heather Radzinski
Specimen: Vinegar Eels
Database Info: 206 images collected
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<th>Specimen</th>
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<tr>
<td>NOVEMBER 21, 2000</td>
<td>EL PASO, TX</td>
<td>Hueco Elementary School</td>
<td>2000-026</td>
<td>PK-5th</td>
<td>Jennifer Bittner</td>
<td>June bug, big and little spiders, small cricket and leaf</td>
<td>138 images collected</td>
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<tr>
<td>DECEMBER 5, 2000</td>
<td>ROCK ISLAND, IL</td>
<td>Jordan Catholic School</td>
<td>2000-029</td>
<td>7th &amp; 8th</td>
<td>C. Spindel</td>
<td>Bumbee, ladybugs, and fly</td>
<td>34 images collected</td>
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**Bugscope continued**
THE IMAGING TECHNOLOGY GROUP HAS GIVEN A TOTAL OF 49 TOURS IN 2000

JANUARY – 3 Tours
14: MS; Huey Hing, Faculty Candidate
21: VMIL; Richard Christensen and Mark Hogan, GM
28: MS/VMIL; Bruno Sobral, National Center for Genome Resources

FEBRUARY – 7 Tours
2: MS/VMIL; Clive Anderson, Unilever
3: VMIL; Bob Hummel, DARPA
7: MS; Dr. Hongmin Li, Faculty Candidate
10: VMIL; Biotechnology
14: MS/VMIL; Vision Workshop
21: MS; Dimitra Lugoudas, Faculty Candidate
23: MS; Dr. Chen, CSB Faculty Candidate

MARCH – 9 Tours
3-4: BI open house
   VMIL; NCSA visitor
   VMIL; Prospective graduate student
10: MS/VMIL; Prospective Chem. Eng. Grad. Students for Vinay Gupta
16: MS/VMIL; Kiichi Matsuhata and Nobuhiko Yamashita, Okayama University
22: MS; Yuan Chen, CSB Faculty candidate
24: MS/VMIL; Prospective Chem. Eng. Grad. Students for Vinay Gupta
27: MS; Jeannette Kunz, Cell Biology Faculty Candidate
31: MS; Glen Niebur for Dept. of Mechanical and Industrial Engineering

APRIL – 4 Tours
10: MS; Michel Bellini, CSB Faculty Candidate
14: MS; David Sharp, CSB Faculty Candidate
19: Rita Colwell, Director of NSF
26: MS; Prof. Roger Minear and class

MAY – 2 Tours
15: BI/MS/VMIL; Bill Mischo, Asako Omi, Senior Manager, Internet Business Division, NTT Learning Systems, Corporation
20: MS; Faculty candidates Hayes Rye, Chavela Carr for Structural Biology

JUNE – 3 Tours
15: MS; Underprivileged students tour of ESEM
16: Bugscope Demo and Presentation, ICLS Meeting, Ann Arbor, MI
20: MS; Korean exchange students
JULY – 2 Tours
7: MS/VMIL; Upward Bound College Prep Academy for Minority High School Students
17: MS; Professor Patrick Soukiassian (hosted by Jean-Pierre LeBurton)

AUGUST – 1 Tour
16: Bugscope Demonstration, Microscopy and Microanalysis Conference

SEPTEMBER – 8 Tours
7: MS/VMIL; Tour for graduate analytical chemistry course. Amanda Hummon, Teaching Assistant
7: MS/VMIL; Tour for prospective women’s basketball candidate - Tiffanie Guthrie.
8: BI/MS/VMIL; Mark Childs, Project Engineering Manager, Ralph Larson, Staff Vice President-Engineering, and Pater Grasse, Senior Technical Manager, Wound Care Unit, 3M
8: MS/VMIL; Jane Flaxington, British Telecom
12: MS/VMIL; Sean R. Coyer, UIUC Mechanical Engineering
18: VMIL; Ernest Retzel for Vice Chancellor of Research
20: MS/VMIL; Dwight Nishimira, Stanford
22: Bugscope/MS; Basketball recruit Jere Issemann

OCTOBER – 7 Tours
3: Bugscope/VMIL; Yamaha Visit
12: BI/MS/VMIL; French Consulate
19: VMIL; Camden Miller, Ed Cranston, Apple Computer
20: MS/VMIL; Bimage 2000 Workshop
21 MS/VMIL; Bimage 2000 Workshop
26: MS/VMIL; John Brauman, Professor of Chemistry at Stanford University
26: VMIL; Industrial Design class for Jerry Knopow

NOVEMBER – 2 Tours
1: Bugscope Talk; Rick Winkel, IBHE, teachers and administrators
2: VMIL/Cyberscan; Prospective UI tennis player, Chris Martin and Jiri Jonas

DECEMBER – 1 Tour
7: VMIL; Timothy Kerestes, Project Manager, Project Planning and Facility Management, Post Genomic Institute Facility Project on UIUC campus
<table>
<thead>
<tr>
<th>TITLE:</th>
<th>“Automated Acquisition of Transmission Electron Micrographs”</th>
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<tr>
<td>INVESTIGATORS:</td>
<td>Bridget Carragher, Clint Potter</td>
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<td>Bridget Carragher, Clint Potter, Zhi-Pei Liang, David Krigeman, Ron Milligan</td>
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Other Facts and Figures

Total Number of Active Accounts for 2000

VMIL  215
Microscopy Suite  155

TOTAL  370

ITG Web Hits in 2000 (average daily)  3,114

Bugscope Web Hits in 2000 (average daily)  1,173

Chickscope Web Hits in 2000 (average daily)  1,097
<table>
<thead>
<tr>
<th>NAME</th>
<th>AFFILIATION</th>
<th>PHONE</th>
<th>ROOM</th>
<th>E-MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridget Carragher</td>
<td>Director</td>
<td>244-0188</td>
<td>B650K</td>
<td><a href="mailto:bcarr@uiuc.edu">bcarr@uiuc.edu</a></td>
</tr>
<tr>
<td>Chas Conway</td>
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<td>B606L</td>
<td><a href="mailto:cconway@uni.uiuc.edu">cconway@uni.uiuc.edu</a></td>
</tr>
<tr>
<td>Denis Fellmann</td>
<td>Visiting Research Engineer</td>
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<td>B650L</td>
<td><a href="mailto:dfellman@uiuc.edu">dfellman@uiuc.edu</a></td>
</tr>
<tr>
<td>Glenn Fried</td>
<td>AFM, LM/LSCM, NSOM</td>
<td>333-5493</td>
<td>B650J</td>
<td><a href="mailto:gfried@uiuc.edu">gfried@uiuc.edu</a></td>
</tr>
<tr>
<td>Rob Gillespie</td>
<td>Consultant</td>
<td>244-3074</td>
<td>4602</td>
<td><a href="mailto:jrgilles@itg.uiuc.edu">jrgilles@itg.uiuc.edu</a></td>
</tr>
<tr>
<td>Ben Grosser</td>
<td>Manager, VMIL</td>
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<td><a href="mailto:grosser@uiuc.edu">grosser@uiuc.edu</a></td>
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<tr>
<td>Lori Heil</td>
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<td><a href="mailto:lheil@uiuc.edu">lheil@uiuc.edu</a></td>
</tr>
<tr>
<td>Nick Kisseberth</td>
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<td><a href="mailto:nkissebe@itg.uiuc.edu">nkissebe@itg.uiuc.edu</a></td>
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<tr>
<td>Alex Lazarevich</td>
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<td><a href="mailto:alazarev@itg.uiuc.edu">alazarev@itg.uiuc.edu</a></td>
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<tr>
<td>Clint Potter</td>
<td>Director</td>
<td>244-1958</td>
<td>4317</td>
<td><a href="mailto:cpotter@uiuc.edu">cpotter@uiuc.edu</a></td>
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<tr>
<td>Jim Pulokas</td>
<td>Research Programmer</td>
<td>265-5058</td>
<td>B650L</td>
<td><a href="mailto:pulokas@uiuc.edu">pulokas@uiuc.edu</a></td>
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<tr>
<td>Scott Robinson</td>
<td>ESEM, TEM, Stereology</td>
<td>265-5071</td>
<td>B650J</td>
<td><a href="mailto:sjrobin@itg.uiuc.edu">sjrobin@itg.uiuc.edu</a></td>
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<tr>
<td>Anirban Roy</td>
<td>Research Assistant</td>
<td>244-4278</td>
<td>4259</td>
<td><a href="mailto:aroy@uiuc.edu">aroy@uiuc.edu</a></td>
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<tr>
<td>Janet Sinn-Hanlon</td>
<td>Designer</td>
<td>244-1436</td>
<td>4315</td>
<td><a href="mailto:j-sinn@itg.uiuc.edu">j-sinn@itg.uiuc.edu</a></td>
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<tr>
<td>Daniel Weber</td>
<td>Systems</td>
<td>244-3191</td>
<td>4311</td>
<td><a href="mailto:d-weber@uiuc.edu">d-weber@uiuc.edu</a></td>
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<tr>
<td>Jo Wozniak</td>
<td>Consultant</td>
<td>244-1780</td>
<td>4321</td>
<td><a href="mailto:jwozniak@uiuc.edu">jwozniak@uiuc.edu</a></td>
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<tr>
<td>Yuanxin Zhu</td>
<td>Postdoc</td>
<td>265-0875</td>
<td>4315</td>
<td><a href="mailto:zhu4@uiuc.edu">zhu4@uiuc.edu</a></td>
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**Other ITG Related Numbers**

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<thead>
<tr>
<th>NAME</th>
<th>PHONE</th>
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<tbody>
<tr>
<td>VMIL</td>
<td>(4602)</td>
<td>244-3074</td>
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<tr>
<td>Microscopy Suite (B606)</td>
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<tr>
<td>Machine Room (4271A)</td>
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<td>Cyberscan Room (B652)</td>
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<td>AFM Room (B606G)</td>
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<tr>
<td>TEM Room (B606C)</td>
<td>244-7973</td>
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<tr>
<td>Fax Machine (4321)</td>
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**Other Beckman Numbers**

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<thead>
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<th>NAME</th>
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<tr>
<td>Purchasing (Dale Johnston)</td>
<td>244-5595</td>
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<tr>
<td>BISS Help Desk</td>
<td>244-2904</td>
</tr>
<tr>
<td>Security</td>
<td>244-2692</td>
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<tr>
<td>Computer Central Stores</td>
<td>244-0139</td>
</tr>
<tr>
<td>Beckman Store (Suzie Rook)</td>
<td>244-1080</td>
</tr>
<tr>
<td>Receiving</td>
<td>244-6772</td>
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