

Creighton University – Nebraska Center for  
Cell Biology – National Science Foundation –  
Nebraska E.P.S.Co.R.

# Modern Imaging & Biophysical Methods in Cell Biology & Neuroscience

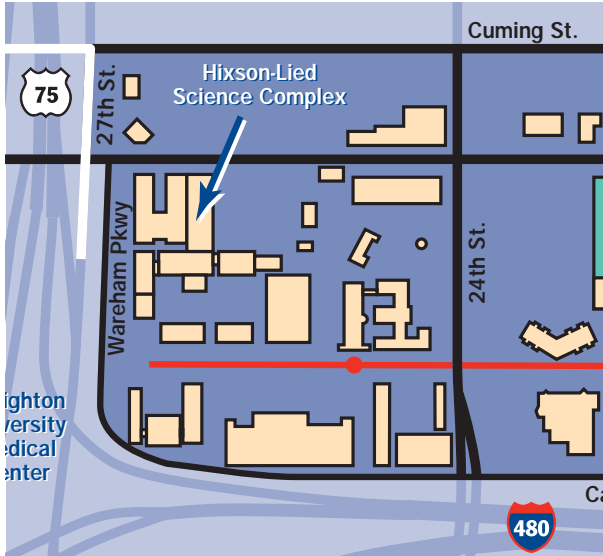
Saturday, September 25<sup>th</sup>, 2004  
Keller Lecture Hall (G04)  
Hixson-Lied Science Building  
Creighton University  
Omaha, Nebraska 68178

Creighton  
UNIVERSITY

Modern Imaging and Biophysical Methods  
in Cell Biology and Neuroscience  
Department of Biomedical Sciences  
Creighton University  
2500 California Plaza  
Omaha, Nebraska 68178

Meeting Hotel  
Clarion Hotel Executive Center  
3650 S. 72<sup>nd</sup> St. (&2<sup>nd</sup> & I-80)  
Reservations 402 397-3700 (ask for  
Creighton University group rate)

## How To Get to Creighton



Keller Lecture Hall (G04) • Hixson-Lied Science Building  
CREIGHTON UNIVERSITY

## How To Get There

FIRST-CLASS  
U.S. POSTAGE  
**PAID**  
OMAHA, NE  
Permit #172



The first in a series of annual seminars sponsored by the Creighton University Nebraska Center for Cell Biology and the National Science Foundation – Nebraska E.P.S.Co.R., featuring national and local speakers.

The symposia are designed to bring the latest in modern optical, imaging and other biophysical techniques to Nebraska life scientists and students and to highlight original research by Nebraska researchers.

Microscopy and other vendors will be present with exhibits.

Open to all Nebraska faculty and students, no registration charge.

#### Web site:

<http://biomedsci.creighton.edu/ImagingSymposium.html>

## Registration Information

Registration is free.

*Pre-registration is requested at the symposium web site or by email to the organizer.*

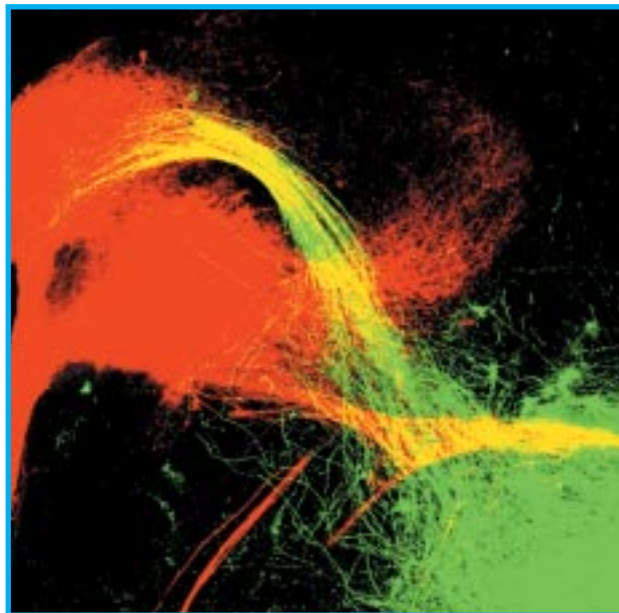
## Organization

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## Speakers & Topics

### CONFOCAL MICROSCOPIES

Thomas Moninger, Central Microscopy Research Facility, University of Iowa School of Medicine.

### FLUORESCENCE CORRELATION SPECTROSCOPY

Elliot Elson, Biochemistry and Molecular Biophysics, Washington University School of Medicine.

### AUTOMATED ANALYSIS OF CILIARY BEAT FREQUENCY

Joseph Sisson, Internal Medicine, University of Nebraska Medical Center.

### TUMOR CELL PHOTOBIOLOGY

Edward Brown, Radiology, Harvard University School of Medicine.

### TWO PHOTON INTERACTIONS IN PHOTOTOXICITY

Michael Nichols, Physics, Creighton University, & Nebraska Center for Cell Biology.

### IMAGING SYNAPTIC INTERACTIONS IN DENDRITES USING TWO PHOTON CONFOCAL MICROSCOPY

Ania Majewska, Picower Center for Learning and Memory, Massachusetts Institute of Technology.

### CELLULAR MECHANICS USING THE OPTICAL STRETCHER

Richard Hallworth, Biomedical Sciences, Creighton University, & Nebraska Center for Cell Biology.

### OPTIMIZATION OF NEURONAL TRACING PROBES FOR USE WITH CONFOCAL MICROSCOPY

Bernd Fritzsche, Department of Biomedical Sciences, Creighton University, & Nebraska Center for Cell Biology.

