School of Biological Sciences

Spring 2012



THE LECTURE SERIES AND ITS PURPOSE

The R. Omar and Evelyn Rilett Family Life Sciences Lecture Series was established in April 2007. It recognizes Dr. Rilett's vision and leadership, which built a Department of Biological Sciences at Illinois State University that advanced education in the natural sciences, fostered scholarly endeavors, and nurtured the development of research to the benefit of all who chose to teach and learn at this institution. The purpose is to bring outstanding life scientists and lectures to Illinois State University to benefit academic and local communities.

School of Biological Sciences

–presents –

R. Omar and Evelyn Rilett Family

Life Sciences Lecture Series

Co-Sponsored by the

School of Biological Sciences, Phi Sigma, College of Arts and Sciences, Provost Office, and Research and Sponsored Programs



Dr. Jack Kaplan, Ph.D., F.R.S. Benjamin Goldberg Professor and Head University of IL at Chicago

March 22nd, 2012 7:00 P.M.

Prairie Room

Bone Student Center

Illinois State University

LECTURE SERIES PROGRAM WELCOME

Dr. Craig Gatto

Director, School of Biological Sciences

HISTORY OF LECTURE SERIES

Dr. Herman Brockman
Professor of Genetics, Emeritus
Distinguished Professor

INTRODUCTION OF SPEAKER

Dr. Craig Gatto

Director, School of Biological Sciences

PRESENTATION "Let there be light! Using Photochemistry to Probe Biological Processes"



The power of using light microscopy at higher and higher levels of resolution has been appreciated in biological sciences for the last three hundred years. We have advanced from exciting but rudimentary views of organisms and cells to the amazing subcellular resolution of the confocal microscope. During the last thirty years we have begun to appreciate that we can use light in other equally exciting ways. We can use light to trigger very rapid chemical reactions, which can be used to probe how fast and how and where in cells certain biological pro-

cesses occur. This talk will discuss how these new technologies were developed, what they can be used for and how they might be improved.

Highlights of Dr. Jack Kaplan's career, thus far:		
Education:		
1966	B.Sc. (Hons) Univ. of Manchester (Chemistry)	
1969	M.Sc. Univ. of Warwick (Mol. Enzymology)	
1973	Ph.D. Univ. of London (Biophysics)	
Postgraduate	Training and Fellowship Appointments:	
1973-75	Max Planck Institute for Biophysics, Frankfurt, Germany	
Faculty Appo	intments:	
1975-1978	Research Associate, Dept of Physiology, Yale University	
1978-1981	Assistant Professor, Dept of Physiology & Biophysics, University of Iowa	
1981-1985	Assistant Professor, Dept of Physiology, University of Pennsylvania	
1985-1988	Associate Professor, Dept of Physiology, University of Pennsylvania	
1988-1994	Professor of Physiology, University of Pennsylvania	
1994- 2003	Professor and Chair, Dept of Biochemistry & Molecular Biology, Oregon Health & Science University	
2003-	Benjamin Goldberg Professor & Head, Dept of Biochemistry & Molecular Genetics, University of Illinois (UIC) at Chicago	
2004- 2005	Interim Sen. Assoc. Dean for Research, COM, UIC	
2011-	Associate Director for Basic Science, University of Illinois Cancer Center	

Awards and Honors:

1973	Max Planck Society Post-Doctoral Fellowship
1980	Travel Award to attend XXVIII IUPS Congress, Budapest, Hungary from IUPS National Committee
1982-1987	Awarded Research Career Development Award (KO4 HL 01092) by National Heart, Lung & Blood Institute (NIH)
1983	Appointed Visiting Senior Scientist, Biochemistry Department, Weizmann Institute of Science, Rehovot, Israel
1985	M.A. (Hon. Caus) University of Pennsylvania
1990	Royal Society Guest Fellow, Nat. Inst. for Med. Res. London, Host Dr. N.M. Green, F.R.S
1995	Alexander Von Humboldt Senior Scientist Award
1995	Fellow of the Royal Society, London
1999	Fellow of the Biophysical Society