

PREVIOUS WINNERS

- 1995 – Kenneth Eilertson and Drazen Raucher
- 1996 – Randall Ketchem
- 1997 – Priya Subramony
- 1998 – Goran Periz
- 1999 – Genfa Zhou
- 2000 – Bishow Adhikari
- 2001 – Junfeng Wang
- 2002 – Meredith Newby
- 2004 – Pamela D. Twigg and Rumana Rashid
- 2005 – Brenda Schoffstall and Aya Kataoka

PREVIOUS KASHA AWARD SEMINAR SPEAKERS

- 1995 – Dr. Linda Nicholson
- 1996 – Dr. Teresa E. Strzelecka
- 1997 – Dr. Steven Pascal
- 1998 – Dr. Anthony Nicholls
- 1999 – Dr. Kenneth Eilertson
- 2000 – Dr. Ronald Milligan
- 2001 – Drs. Glenn Crosby Alexander
Demchenko, Mostafa El-Sayed, Robin
Hochstrasser, Joseph Lakowicz, Klaus
Schulten
- 2002 – Dr. Tom Eads
- 2004 – Dr. Drazen Raucher
- 2005 – Dr. Yi Zhang

11th Annual Kasha Award Seminar and Ceremony

April 25, 2006

Guest Speaker:

Dr. Bishow Adhikari

NIH/NHLBI

Clinical & Molecular Medicine Program

1996 Graduate

**Ph.D. Program in Molecular
Biophysics**

**Molecular Biophysics
Graduate Program**

**The Florida State University
Tallahassee, Florida**

THE KASHA AWARD

The Kasha Award is given annually to recognize and stimulate research and to promote quality scientific writing. The award is named after Dr. Michael Kasha, Distinguished University Professor and founder of the Institute of Molecular Biophysics. All MOB students who are primary authors on a published paper in the past two years are eligible to be nominated by their major professor. Winners are selected by a committee.

WELCOMING REMARKS

Dr. Timothy M. Logan
Department of Chemistry and Biochemistry
Director, MOB Graduate Program

INTRODUCTION OF SPEAKER

Dr. Piotr G. Fajer

SPEAKER

Bishow B. Adhikari, Ph.D.

**“MOLECULAR BASIS OF LENGTH-DEPENDENT
ACTIVATION IN CARDIAC MUSCLE”**

PRESENTATION OF AWARD

Dr. Michael Kasha

RECIPIENT

Eliza Ruben

Current Student
Laboratory of Prof. Michael Chapman

THE SPEAKER

Dr. Bishow Adhikari is currently a Health Scientist Administrator at the National Heart, Lung, and Blood Institute. He oversees research programs related to the application of bioengineering, nanotechnology, proteomics, and other emerging technologies to cardiovascular diseases and cardiovascular medicine.

Dr. Adhikari earned a Bachelor's Degree in Physics from Davidson College, Davidson, North Carolina in 1991, and joined the Molecular Biophysics Graduate Program at Florida State University in the summer of that year under the mentorship of Dr. Piotr Fajer. His graduate research was focused on understanding the molecular mechanism of force generation in muscle. He was awarded the Ph.D. in Fall 1996, after successfully defending his dissertation entitled, “Myosin Heads: Modulation of Dynamics in Filaments and Orientation and Mobility in Fibers during Force Generation”.

Following graduation at the end of 1996, Dr. Adhikari joined the Laboratory of Dr. Kuan Wang at the NIAMS, National Institutes of Health, as a postdoctoral fellow. His research at the NIH was focused on the physiological roles of titin and nebulin, two giant muscle proteins. During this research work, he became interested in the molecular mechanisms that regulate cardiac muscle function.

In 2002, he left the NIH to pursue further research on cardiac muscle with the Regnier/Martyn research group as a Senior Fellow at the Department of Bioengineering, University of Washington, Seattle. He returned to NIH in 2004 and joined the NHLBI.

Dr. Adhikari received the Kasha Award in 2000 for a paper entitled, "Dynamic Modulation of the Regulatory Domain of Myosin Heads by pH, Ionic Strength, and RLC Phosphorylation in Synthetic Myosin Filaments," *Biochemistry*, 38, 3127-3122 (1999).