

# Natural Sciences & Mathematics

## 27 NSM Students Graduate with Honors

### *summa cum laude*

**G.P.A. 3.9 - 4.0**

Scot Childress	Mathematics
John Mayberry	Mathematics
Nicole Vearrier	Biological Science

### *magna cum laude*

**G.P.A. 3.75 - 3.89**

Cynthia Gilley	Chemistry
Ryan Hashi	Physics
Tram Hoang	Mathematics
Sommer Kaskowitz	Biological Science
Maria Ousley	Biological Science
Frank Pastore Jr.	Biochemistry
Brian Petrie	Biochemistry
Bret Polopolus	Mathematics
Adrian Prunean	Biological Science
Tetsuya Tsukamoto	Biological Science
Jennie Walcek	Biological Science

### *cum laude*

**G.P.A. 3.5 - 3.74**

Samira Abolhosseini	Biological Science
Christopher Fernandez	Chemistry
Araceli Garcia	Biological Science
Kerstin Ghannam	Biological Science
Kristen Hazelleaf	Biological Science
Omar Khalid	Biochemistry
Anh-Huy Le	Biological Science
Kathryn Leigh	Biological Science
John Moos	Biological Science
Tairi Roque	Mathematics
Kai-Ya Tsai	Mathematics
John Urrea	Mathematics
James Wrkich	Mathematics

### NSM Awards Banquet

The 20th annual NSM Awards Banquet will be held on Friday, May 16, 2003 at the Brea Embassy Suites. This banquet is a special dinner to recognize students graduating with honors, and for the departments to recognize their scholarship and award winners.

Tickets will be on sale from April 28, 2003 to May 12, 2003. The cost is \$22.00. Tickets can be purchased in MH 166.

### 2003 Commencement

The NSM commencement ceremonies will take place on Saturday, May 31, 2003. The keynote speaker for the University wide ceremony will be Orange County Sheriff Michael S. Carona.

Tickets will be available for pick up the week of May 5th at the TSU Information Desk. This will be the last opportunity you have to pick up commencement tickets.

Dean's Office  
McCarthy H all 16 6  
(714) 278-2638

Dean:  
Dr. Kolf O. Jayaw eera  
kjayaw eera@fullerton.edu

Associate Dean:  
Dr. David From son  
dfrom son@fullerton.edu

Assis tant Dean:  
Rochelle Woods  
McCarthy H all 4 88  
(714) 278-7082  
rwoods@fullerton.edu

Departm ent of Biological Science  
McCarthy H all 282  
(714) 278-36 11

Dr. C. Eugene Jones , Chair  
cejones@fullerton.edu

Departm ent of Chem istry &  
Biochem istry  
McCarthy H all 5 80  
(714) 278-36 21

Dr. Robert Belloli, Chair  
rbelloli@fullerton.edu

Departm ent of Geological  
Sciences  
McCarthy H all 254  
(714) 278-3883

Dr. John Fos ter, Chair  
jfos ter@fullerton.edu

Departm ent of Mathem atics  
McCarthy H all 154  
(714) 278-36 31

Dr. Jam es Friel, Chair  
jfriel@fullerton.edu

Departm ent of Physics  
McCarthy H all 6 11  
(714) 278-336 6

Dr. Roger Nanes , Chair  
rnanes@fullerton.edu

Program in Science Education  
McCarthy H all 6 29  
(714) 278-2307

Richard Locj ga, Director  
rlocj ga@fullerton.edu

## News from the Departments

### Biology

Dr. Steve Murray has been nominated to the Newly created National Marine Protected Areas Federal Advisory Committee. Dr. Murray is one of two Californians awaiting confirmation of their appointments to the 30-member committee. The committee reports to the National Oceanic and Atmospheric Administration, and provides advice and recommendations to the secretaries of commerce and the interior on marine protected areas.

President Gordon announced that Dr. Steve Murray has been selected as the 2002/2003 CSUF Outstanding Professor. Dr. Murray is the 39th outstanding professor and the 15th from the College of Natural Sciences and Mathematics to be selected for this honor.

### Math

Dr. David Pagni is one of the winners of the California State University Wang Family Excellence Awards. The Wang Awards were established by Trustee Stanley T. Wang to recognize outstanding achievements of faculty members and administrators.

Jan Sheridan has been selected for the 2003 College of Natural Sciences and Mathematics Staff Excellence Award. She serves as a constant source of support and information for the Math Department. Congratulations Jan!

The department will hold a reception for graduates, their friends and families in MH 187 immediately following the CNSM Commencement.

### **Biology Seminars**

**May 7**

MARC Seminar  
Superoxide dismutases in oxidative stress and metal metabolism.  
Dr. Chandra Srinivasan  
Department of Chemistry and Biochemistry, CSUF

**May 14**

SCERP Seminar

**May 21**

Stuart Wooley  
Department of Entomology  
University of California Riverside

### **Chemistry/Biochemistry Seminars**

**May 8**

"Lost in the Crowd, Nitric Oxide Now Showing It's face in Surgery: Nitric Oxide Releasing Materials"  
Mr. San Ng'wono, Graduate Student  
Department of Chemistry & Biochemistry, CSUF

**May 15**

Mr. David Zalewski, Graduate Student  
Department of Chemistry & Biochemistry, CSUF

**May 22**

"Zeolites and Their Applications: Adsorption, Catalysis, and Ion Exchange"  
Mr. Chao Kuan Tsai, Graduate Student  
Department of Chemistry & Biochemistry, CSUF

## Dimensions Feature Articles

Dimensions is the undergraduate research journal for NSM students.  
Copies will be available in the Opportunity Center on May 19, 2003.

### **Theoretical Study on the Bromination of Cytosine** **Lawrence W. Gray**

Advisor: Dr. Fu-Ming Tao  
Department of Chemistry & Biochemistry

### **Purification and Characterization of ADP-Glucose Pyrophosphorylase from *Rhodospirillum rubrum*:** **Probing the roles of Arg-13 and Lys-40.**

**Jimmy Hernandez**  
Advisor: Dr. Christopher Meyer  
Department of Chemistry & Biochemistry

### **Rate Constants for the Reactions of Chlorine Atoms with Cyclic Ethers Using Long-path FTIR**

**Rachel Kelly**  
Advisor: Dr. Scott Hewitt  
Department of Chemistry & Biochemistry

### **The 1981 Corinth, Greece Earthquake Sequence: Geodetic and Coulomb Stress Modeling**

**Ivan DeLeon**  
Advisor: Dr. David Bowman  
Department of Geological Sciences

### **On Separation Inheritance** **Scot Childress**

Advisor: Dr. Alfonso Agnew  
Department of Mathematics

### **Models of Negatively Damped Harmonic Oscillators: the Case of Bipolar Disorder**

**Darryl Daughterty, John Urrea, and Tairi Roque**  
Advisor: Dr. Stephen Wirkus  
Department of Mathematics,  
California Polytechnic university, Pomona

### **A Mathematical Model for Jaundice and its Treatments** **Tram Hoang, Shazia Khan, and Lorena Ortiz**

Advisor: Dr. Charles Lee  
Department of Mathematics

### **The Calculus of Quaternions** **James M. Wrkich**

Advisor: Dr. Alfonso Agnew  
Department of Mathematics

### **Differential Cross Section Ratios for the Electron Impact Excitation of the Argon $3p^54s$ Configuration**

**Peter Vandeventer**  
Advisor: Dr. Murtadha Khakoo  
Department of Physics

### **Improved Questions Encourage Better Participation of Students Learning Science**

**Harshana R. Patel**  
Advisor: Nancy J. Pelaez  
Science Education program

## Raytheon Internship Information

**Thursday, May 8th**  
**12:00 - 1:00 p.m.**  
**LH 402**

Raytheon is looking for sophomores and juniors majoring in Computer Science, Electrical engineering, Mathematics and Physics for internships as Software Student Engineers. This is a year round part time opportunity.

## So. Cal. EDISON is Hiring!

**Wednesday, May 7th**  
**12:15 - 1:30 p.m. CS 201**

Edison is looking for Chemistry, Biochemistry or Mechanical, Electrical and Civil Engineering majors to hire.

Free Food will be provided.

## Math Department Colloquia

**Bruce E. Shapiro, Ph.D.**  
**Understanding the Genome:**  
**How Close are we to a**  
**Star trek Medical Diagnosis?**

Wednesday, May 7  
2:30 p.m., MH-513  
Refreshments will be served.

## Student Clubs and Organizations

Biology Club  
Student Contact: Nicole Johanson  
twiggyjohanson@hotmail.com

Biology Graduate Student Club  
Student Contact: Donovan German  
dh060056@student.fullerton.edu

Chemistry and Biochemistry Club  
Student Contact: Jody Sawyer  
virgofever@yahoo.com

Computational Chemistry Club  
Student Contact: Lawrence Gray  
larry\_w\_gray@juno.com

Geology Club  
Student Contact: Steve Turner  
steve1turner@yahoo.com

Math Club  
Student Contact: Stephanie Proctor  
Mathclub@fullerton.edu

Minority Biomedical Research Student Club (MBRS)  
Student Contact: Jimmy Hernandez  
J\_hernandez@yahoo.com

National Science Teachers Association  
Student Contact: Eryn Corralejo  
twirlergur11924@hotmail.com

Physics Club  
Student Contact: Steve Mahrley  
stevemarley@yahoo.com

Student Health Professions Association (SHPA)  
Student Contact: Sean Rockwell  
SHPA2@hotmail.com

*Have science or  
math questions?*

Free tutoring is available in  
the Opportunity Center,  
MH-488!

Visit us on the web at  
<http://nsm.fullerton.edu>

## Interested in Teaching?

### Come see a discussion on Control in the Classroom

### Tuesday, May 6 at 6:00 p.m. In the Opportunity Center (MH-488)

Hosted by the CSUF Student Chapter of  
the National Science Teachers Association

## Geology Club Spring 2003 Events

May 6 <sup>th</sup> & 8 <sup>th</sup>	Rock Sale MH-208 11:30-2:00pm
May 8 <sup>th</sup>	Geology Club Meeting MH-208 12:00 pm
May 14 <sup>th</sup>	Speaker Series MH-327 4:30pm
May 24 <sup>th</sup>	Beach Clean up and Barbeque (location TBA via website)
June 1 <sup>st</sup>	Annual Club Picnic, Craig Park

## ASI Yellow Ribbon Campaign

The Associated Students, Inc. is encouraging students to wear yellow  
ribbons in support of our military troops.

To get a yellow ribbon you can stop by the ASI office, TSU-207 or call  
714-278-3295.