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## Applied Mathematics

Monterey, California, Naval Postgraduate School

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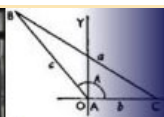
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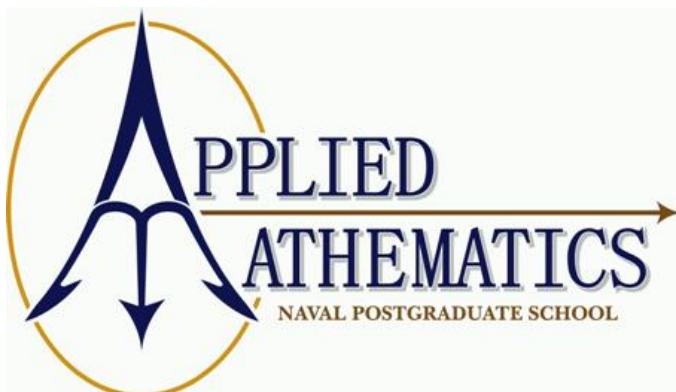
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# DEPARTMENT OF APPLIED MATHEMATICS

[About Us](#)
[People](#)
[Academics](#)
[Research](#)
[Resources](#)
[Seminars](#)
[Prospective Students](#)


## Mission

The Department of Applied Mathematics has a multifaceted mission to provide an exceptional mathematical education focused on the unique needs of NPS students, to conduct relevant research, and to provide service to the broader community. A strong and vibrant Department of Applied Mathematics is essential to the university's goal of becoming a premiere research university. Because research in mathematics often impacts science and engineering in surprising ways, the department encourages mathematical explorations in a broad range of areas in applied mathematics with specific thrust areas that support the mission of the school.

Mathematics is the language of science and is fundamental to every quantitative science and technology curriculum on campus. The Department of Applied Mathematics strives to provide a solid mathematical foundation for all students as they make the transition into graduate curricula. We provide high-quality instruction in all courses, giving emphasis to relevant and modern mathematical techniques in our advanced courses. And we encourage students to develop and utilize skills in analysis, reasoning, creativity, and exposition as they acquire knowledge of mathematics and its applications.

## Administration

### Chairman:

[Prof. Carlos Borges](#)

### Associate Chairs:

#### Labs and Computing:

[Prof. David Canright](#)

#### Research:

[Prof. Pante Stanica](#)

#### Instruction:

[Prof. Craig Rasmussen](#)

### Program Officer:

[LCDR Thor Martinsen](#)

## Contact us

Department of Applied Mathematics  
Spanagel Hall, Room 250  
833 Dyer Road  
Monterey, CA 93943-5216  
(831) 656-3973  
DSN: 756-3973  
Fax: (831) 656-2355

## Department News

**2013 Department of Applied Mathematics Awardees:** David Canright (Instruction), Beny Neta (Research), and Carlos Borges (Service). Click [here](#) for more details.

### Gene Golub SIAM Summer School

The third Gene Golub SIAM Summer School will take place in Monterey, California, July 29 to August 10, 2012. See the [flyer](#) for more details.

### Prof. Guillermo Owen in The Economist

Prof. Guillermo Owen was recently interviewed by The Economist for an article detailing some of the many uses of Game Theory in modeling human behaviour. You can see the interview by following this link: [Forecasting human behaviour](#)

**2012 Department of Applied Mathematics Awardees:** Raluca Gera (Instruction), Pante Stanica (Research), and Craig Rasmussen (Service). Click [here](#) for more details

### [Second Monterey Workshop on Computational Issues in Nonlinear Control](#)

On November 7 & 8 of 2011 we will be hosting the Second Monterey Workshop on Computational Issues in Nonlinear Control. This workshop aims to bring together a diverse group of researchers working on a variety of fundamental computational problems related to nonlinear control. The workshop is sponsored by the Naval Postgraduate School and UC San Diego. We expect partial support from NSF and AFOSR. For details on speakers and a tentative schedule please go to the [MWCINC website](#).

### DGCOM Project

The Discontinuous Galerkin Coastal Ocean Model is currently being developed by Prof. Frank Giraldo and his team. They are currently studying extreme events including tsunamis and storm-surges. You can learn more about this project at the DGCOM [website](#).

### Promotions in 2011



A hearty congratulations to our colleagues who were promoted this year. Craig Rasmussen (left) was promoted Full Professor, and Raluca Gera (second from right) was promoted to Associate Professor and awarded tenure at a ceremony held on the Quarterdeck on May 13, 2011.

### NUMA Model

The Non-hydrostatic Uniform Model of the Atmosphere that was developed by Prof. Frank Giraldo and his team is currently under

developed by them from scratch and the team is currently under consideration for adoption as a primary model for operational predictions. You can learn more about this project at the [NUMA website](#).

**Art Krener Receives NOLCOS Award**



In early September, at the Eight IFAC Symposium on Nonlinear Control Systems in Bologna, Prof. Art Krener was awarded the "Certificate of Achievement" by the IFAC Technical Committee on Nonlinear Control Systems for his lifetime contribution to the development of nonlinear control theory. This certificate is awarded to one person every three years. He is the second recipient (the first was Alberto Isidori.) Congratulations Art!

**Fariba Fahroo Receives AIAA Mechanics of Flight Award**



During an August 3 ceremony in Toronto, Canada, NPS Professors Fariba Fahroo (pictured above) and Mike Ross were presented with the American Institute of Aeronautics and Astronautics (AIAA) Mechanics and Control of Flight Award for their research in applying pseudospectral techniques to optimal control theory. This award is the highest honor given by the AIAA for the mechanics and control of flight.

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