



# SoFlacs



Vol. 20, No. 4

South Florida Section ACS

Nov.-Dec. 2010

## Ballot Issue for Election of 2011 Officers



### NOMINEE FOR CHAIR-ELECT

#### Dr. Uma Swamy

Dr. Swamy obtained her B.S. degree in Microbiology with a minor in Biochemistry and Biotechnology from the University of Bombay, Bombay in 1995. She has a M.S. in Biochemistry from the University of Mumbai, Mumbai in 1997. She received a Ph.D. degree in Chemistry from Arizona State University in

2006. She is a Lecturer at the Department of Chemistry & Biochemistry, Florida International University. In addition to being a lecturer, she coordinates the General Chemistry labs and the introductory Forensic Chemistry labs. She runs a peer-tutoring program for the students in General Chemistry called CHEMPAL and is very involved in Chemistry education. She is part of the Upward Bound program to help low-income students attain their dream of a college education. She is a member of ACS and the Chem Ed division.

#### Dr. Swamy's Position Statement

The SoFL-ACS has been extremely active in promoting chemistry in South Florida and has succeeded in attracting a diverse audience to their events. The Section and its multitude of activities is a testament to the hard work and dedication of the previous officers. Their efforts have resulted in a varied scientific community with members from all walks of life and areas of chemistry, whether they be employed in academia, the industry or the government. As an elected SoFL-ACS officer I will continue the good work of my predecessors and strive to increase and promote awareness in the community. This is especially fitting considering that 2011 is the International Year of Chemistry (IYC) and that the first objective in the prospectus is to increase public appreciation of chemistry in meeting world needs. I want to plan activities in the Miami Children's Museum to highlight this and also target local schools for outreach activities. The second objective is to increase interest of young people in chemistry. Every student graduating from high school and even many of those graduating from college think about only a few selected career paths. They are not informed about the vast opportunities that await them when they major in chemistry. As an elected officer, I will make an effort to bridge this gap. With the help of the ACS, I would also like to start a program where undergraduates are exposed to the various avenues and job opportunities that would be open to them as chemistry majors. I plan to target freshman, sophomores and juniors and would achieve my objective by organizing talks and seminars so that they are exposed to the different career options that are available in academia, industry and the government. I hope to organize a site visit if possible to a local industry location. I will endeavor to reach local high schools through outreach activities and make them aware of these opportunities in an effort to increase the curiosity of young people towards chemistry. This will help us increase the number of chemistry majors and furthermore get them excited about research in chemistry and the role they will play in contributing to it, meeting the third objective of IYC. I will help plan events to celebrate Madame Curie's achievements and use this to inspire young women everywhere to choose chemistry as a career. If elected, I will work with the current officers to discharge my responsibilities. I will endeavor to recruit new members from within the community and help this organization achieve its goals in the international year of chemistry.

### NOMINEE FOR SECRETARY

#### Dr. Milargros (Milly) Delgado

Milly received her B.S. degree in Chemistry from the University of Puerto Rico at Rio Piedras in 1980, where she began her graduate work. She transferred with her major professor to the University of Miami where she received her Ph.D. degree in 1987. During 1987-1989 she was a postdoctoral fellow in the Inorganic Chemistry Department at Oxford University, England. She returned to Miami in 1989 as an Assistant Professor in the Department of Chemistry at Florida International University. During the 1993-1994 academic year, Milly was awarded the State of Florida McKnight Fellowship for Junior faculty. In the Fall of 1994, Milly was assigned to FIU's Biscayne Bay Campus where she leads the lower division chemistry teaching, supervises laboratories, and advises pre-professional and chemistry students. In 1995 she received the excellence in teaching award and the Teaching Incentive Program award from FIU. Milly is involved in the integration of computers in the teaching laboratories and development of inquiry-based experiments. She was awarded an NSF grant for the purchase of computers and software. She has developed experiments that incorporate the use of sensors for measuring changes and computers for data collection, manipulation, and analysis. She has a strong mentoring and advising commitment toward science students at FIU, high school and elementary school levels. She participated in the Upward-Bound Program for high school students during the past fifteen summers and has been involved in research with undergraduate and high school students. Milly is the co-advisor to the ACS Student Chapter at FIU-Biscayne Bay Campus that has been recognized for their community activities with multiple awards as Best Club from FIU and Outstanding Chapter from the ACS and most recently for the last two years a "Green Chemistry Chapter" by the ACS.



Milly has been active in ACS governance since 1993 both at national and local levels. As a National Councilor, she was appointed Associate Member of the ACS Project SEED Committee, full member in 1994, and chair of the committee 2001-2003. She was also appointed associate member of the Minority Affairs Committee in 1996 and full member 1997-2005. In 1997 she was appointed associate member of the Society Committee in Education (SOCED). Milly was an elected member of the Committee on Committee 2004 - 2009 where she was member of the Subcommittee on Leadership Development throughout the six years. In 2009 Milly was elected to the Nominations and Elections Committee of the ACS where she is currently a member. She has been a mentor and advisor for the ACS Scholars Program since 1995 and has been a member of the ACS Scholar's Selection Committee since 2000. At the local level she was elected secretary in 1994 and continues to serve in the position. Milly has been active in outreach programs for K-12 students of Miami-Dade and Broward counties. In addition, during the last 10 years, she has organized and hosted the South-Florida Student Awards Banquet, multiple speakers, and developed programs at elementary schools to increase the general public awareness of science such as a Day of Science at the Mall, Science Family Nights, and help organized the traditional SoFLACS Family Day. For her volunteer work in Miami-Dade schools, Milly was recognized as outstanding volunteer for the county in 2003.

Dr. Delgado's Position Statement (see next page)

## NOMINEES FOR CONCILOR/ALTERNATE COUNCILOR

**Dr. Milagros Delgado** (See biography on page 1 for secretary)

**Dr. Delgado's Position Statement**

I look forward to continuing to represent South Florida at National ACS as your Councilor and at the local level as our section's secretary. I have represented South Florida at National level by being appointed or elected to ACS committees (SEED, Minority Affairs, Committee on Education, Committee on Committees), and now to the Nominations and Elections committee. I have attended all Council meetings, and reported back to our Section on activities or issues that could affect us at the local level. My participation in the Summit on Local Sections and Restructure of National Committees has allowed me to express the concerns and difficulties of finding viable methods of presenting activities at the local level that satisfy the needs of our constituents. It is important to continue to be visible and active in the decision-making process of ACS to garner support and recognition for our efforts in continuing our mission to reach the general public and support the local chemistry community. Because of our outreach activities South Florida has been the recipient of multiple ChemLuminary Awards and our ACS Student Chapters have received many "Outstanding Chapter" awards from the ACS. We need to enhance the participation of our student members and younger members and define ways for them to become a louder voice in our section. 2011 will be the International Year of Chemistry. Let us take this opportunity to develop new outreach activities to join in this international celebration. All of us can reach out and communicate to others what inspired us to become chemists or other chemistry related professions. Contact some of the local schools in your area and volunteer. Have Ideas? Want to be involved? What are issues you would like to be addressed at National or local level? Continue to be active and if you have ideas on what works for you in your area, please let us know of activities, seminars, meetings, and volunteering opportunities that might be available in your area. I encourage you to email me at [delgadom@fiu.edu](mailto:delgadom@fiu.edu). Continue your participation and encourage others to participate in outreach activities.



**Dr. George T. Duncan**

George received his B.S. in Chemistry from the University of Miami (1970), his M.S. in Chemistry from Florida Atlantic University (1983), and a Ph.D. in Biology from Florida International University (1996). He first became interested in forensics as a senior in college. He was a member of the Dade County Crime Laboratory from 1969 to 1972 and a forensic chemist from 1972 to the present at the Broward County Sheriff's Office Crime Laboratory. He has trained in the fields of serology, drug analysis, trace evidence, firearms analysis, and crime scene investigation. He is author or coauthor of over 20 papers in the field of chemistry and molecular biology. He has been an adjunct instructor in chemistry at Broward Community College South since 1987 and is presently an adjunct professor at FIU and Nova Southeastern University. He is a member of the American Academy of Forensic Sciences, and a member of the American Genetics Association. He was Chairman of the South Florida ACS Subsection in 1990, before it became a section, and Alternate Councilor 1992-94.

**Dr. Duncan's Position Statement**

The ACS should encourage the diversification of the membership in the profession of chemistry. Because of the job situation in the sciences today, diversification, student internships, and the like should be fostered for future advancements in the sciences.

**Dr. Michael J. Elliott**



Mike received a B.A. in Chemistry and French and a M.A. in chemistry from the University of Virginia and a Ph.D. in chemical education from the University of Texas at Austin. He is currently Assistant Professor of Chemistry at Florida Memorial University after having been at Barry University for many years. Current teaching assignments include General Chemistry, Analytical Chemistry, and Physical Chemistry. Mike won two teaching awards while in graduate school at the University of Texas and loves teaching. In terms of community service, Mike has performed many

demonstrations to third-grade students to enthuse them about science. He has been an ACS member since 1985 and has served the South Florida

section as its first Secretary in 1992 and, later, as Treasurer from 1993 to 1997 and section chair in 2007 and 2008. Mike also served as the Executive Treasurer of Gamma Sigma Epsilon National Chemistry Honor Society from 1993 to 1997.

**Dr. Elliott's Position Statement**

The South Florida Section has historically supported education by providing travel money to undergraduate students, sponsoring speakers, and performing demonstrations to elementary schools students and mall patrons. All of these initiatives have been successful and we should continue to expand these programs to the extent we are able. I applaud the South Florida's efforts in reaching out to historically underrepresented minorities and women and will continue to support any effort to attract bright and talented students into careers in chemistry. An area in which the South Florida Section has not been as successful is in providing programs to our large number of retired chemists. As Councilor, I will continue to investigate ways to reach out to our retired chemists to see what the South Florida Section can offer that would interest them. I also believe that is important that all of the universities in our area continue to cooperate as we have historically done and keep each other apprised of events on our respective campuses.

**Dr. George H. Fisher**

George received a B.S. in chemistry from Rollins College, M.S. in organic chemistry from University of Florida, and Ph.D. in organic from the University of Miami. He is currently Professor of Chemistry at Barry University, where he teaches organic and does research on neurochemistry of D-aspartate. At Barry University he received the Presidential Scholar award in 1998 and 2007, and the Faculty of the Year award in 2002. He is the faculty advisor to Barry's award-winning ACS Student chapter. He has been a member of ACS since 1968 and a member of the Divisions of Organic Chemistry and Chemical Education. He received the SoFL-ACS Distinguished Service Award in 1991 and the ACS Southern Chemist Award in 1995. He has served the ACS for nearly 40 years in various positions. He was Miami Subsection Secretary-Treasurer in 1971 and 1976, Chairman-Elect in 1977, and Chairman in 1978. He was Florida Section Chairman-Elect-Designate in 1979, Chairman-Elect in 1980, and Chairman in 1981; South Florida Section Chair-Elect in 2002, and Chair in 2003 and 2004. He has been a National Councilor/Alternate Councilor for over 25 years, first for the Florida Section, 1983-1991, and then for the South Florida Section, 1992-2000, an Alternate Councilor, 2001-2003, and currently Councilor, 2004-2010. He was a member of the ACS Project SEED Committee 1984-1992 and 1998-2009; the Local Section Activities Committee (LSAC) 1993-1996; and currently on the Community Activities Committee (2010 - present). He is also editor of *SoFlacs* newsletter, National Chemistry Week coordinator, chairman of the budget committee, and chairman of the bylaws committee. He has participated in the Third Grade Chemistry Magic Shows/Demos since 1991 to enthuse elementary students about science. He was a mentor for several Miami Project SEED students from 1984 to 1990, and now coordinates the SoFL-ACS SEED program. At Barry University he works with minority college research students through the MARC and RISE programs. He is also Executive Treasurer of Gamma Sigma Epsilon National Chemistry Honor Society and a member of the Florida Academy of Sciences and Sigma Xi.



**Dr. Fisher's Position Statement**

My record of ACS service over nearly 40 years demonstrates my commitment to ACS. I will continue to support the goals of ACS to improve the public image of chemists and the impact of chemistry on everyone's life, to broaden the scope of chemical education by outreach to local schools, and to keep your membership dues as low as possible while maintaining the level of services which members wish. Educating our younger students (K-12 and university) is a priority. We need to reach children early (elementary age) about the importance of chemistry and science to their everyday lives. I will also endeavor to continue to present a positive image of chemistry to the general public through National Chemistry Week programs and my service now on the national ACS committee on Community Affairs (NCW and Chemists Celebrate Earth Day). I will work to increase the ACS thrust for more involvement of under-represented minorities in science through programs such as Project SEED, ACS Scholars, and Minority Affairs. I ask for your vote for election as your national Councilor.

**Venkatesh M. Shanbhag**

Venkatesh (Vic) Shanbhag, Associate Professor of Chemistry at Nova Southeastern University, Ft. Lauderdale, received a B.Sc. in Chemistry (Physics minor) from University of Bombay, a M.Sc. in Analytical Chemistry from the Indian Institute of Technology, Bombay and a Ph. D. in Inorganic-Analytical Chemistry from Texas A&M University. He teaches chemistry courses (Introductory, General, Organic, and upper division) to students pursuing their career in health professions. He has been a member of ACS since 1986, and has served ACS in varied capacities: meeting chair for DivCHED activities at Orlando ACS Meeting (2002) and Washington, DC ACS meeting (2005); served on the SoFL-ACS Executive Committee as communications coordinator, webmaster, alternate councilor, and the Chair-Elect/Chair/Past-Chair (2004-2006). He is co-organizer of the annual Forensic Conference series since 2003. He is involved in high school outreach activities through National Chemistry Olympiad, National Chemistry week and teacher workshops. Prior to coming to NSU in 1998 as Assistant Professor of Chemistry, he has worked as a Post doctoral research associate at Iowa State University, as a Visiting Professor at Slippery Rock University, and as an Assistant Professor and Director of Undergraduate Labs at Mississippi State University.

**Dr. Shanbhag's Position Statement**

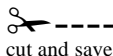
I have been involved in ACS activities at local and national levels for over 15 years. I have demonstrated my outreach and organizational abilities through the Forensic Conference series, workshops for school teachers, and altogether excellent programming. As your representative on Council, I will take initiatives to increase the participation of members in scientific and related activities. I would like to see SoFL-ACS facilitate the development of a consortium of educators for community outreach activities, initiate programs for retired chemists in the region, and facilitate the interaction between industrial and academic chemists. Since our section is geographically spread out, I would like to see that we hold regular regional activities within the local section. I would like for SoFL-ACS to facilitate empowering teachers at high schools and middle schools within the region. As a councilor, I would solicit your ideas and concerns regarding ACS policies and practices so as to present them to the council. I would follow the "listen & learn" motto during my term.

**Countdown to International Year of Chemistry (IYC) 2011: Get Involved Now!**

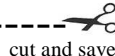
We need your ideas! Through the IYC-2011 initiative "365: Chemistry for Life," a different aspect of chemistry will be highlighted every day on [www.acs.org](http://www.acs.org). You can submit ideas for a favorite element, compound, discovery, process, chemist, or chemistry innovation at [www.acs.org/iyc2011](http://www.acs.org/iyc2011), by September 17, 2011. Suggestions should fall into one of four categories:

- Environment (1<sup>st</sup> quarter) develops awareness of water, its sources, and importance of water purity.
- Energy (2<sup>nd</sup> quarter) features viable alternative energy sources as a key to sustainability.
- Materials (3<sup>rd</sup> quarter) focuses on important aspects of recycling, properties of materials and nanomaterials.
- Health (4<sup>th</sup> quarter) features the positive impact of chemistry on nutrition, hygiene, and medicine.

Selected submissions will receive recognition and an IYC-2011 pin and t-shirt. IYC 2011 toolkits are now available! Visit our website [www.acs.org/iyc2011](http://www.acs.org/iyc2011) to view and download templates, guidelines and ideas for planning and celebrating IYC 2011. Don't see what you need? Let us know at [iyc2011@acs.org](mailto:iyc2011@acs.org).



cut and save



cut and save

**FUTURE MEETINGS - MARK YOUR CALENDAR****Section Seminar Meetings**

Dr. Darren Johnson, Department of Chemistry, University of Oregon, will present two seminars at two SoFL-ACS venues:

**Thursday, Dec. 2, 3:00 PM**, "Supramolecular Coordination Chemistry. I. A Supramolecular Approach to Specific Arsenic Chelation. II. Emerging Applications in Water Purification" at Florida Memorial University, in the FMU/FIU auditorium, 15800 NW 42nd Ave, Miami Gardens.

**Friday, Dec. 3, at 11:00 AM**, "Supramolecular Approach to Ligand and Functional Material Design for Toxic Metal Ion Coordination" at Wertheim WC 130, Florida International University, University Park Campus, Miami.

**VOTE IN THE SOUTH FLORIDA ELECTIONS**

1. Select and mark candidates on the ballot below. If you wish to vote for individual(s) other than those nominated please write in their name(s). Vote only for as many candidates as indicated.
2. For Councilor, vote for two first choices and two second choices and one third choice. The two nominees receiving the most votes will be Councilors for a 3-year term 2011-2013, the next two nominees will be Alternate Councilors for a 3-year term 2011-2013, and the remaining nominee will fill out the remaining two years of the Alternate Councilor term 2011-2012.
3. Cut out the ballot below and place it in an envelope, sign the top left hand corner of the envelope, stamp and mail it to the secretary:

**Dr. Milagros Delgado****Department of Chemistry****FIU - Biscayne Bay Campus, AC1-382A****3000 NE 151 Street****North Miami, FL 33181****BALLOTS MUST BE RECEIVED BY FRIDAY, Dec. 10****CHAIR-ELECT** (vote for one)

\_\_\_\_\_ **Uma Swamy**                      or \_\_\_\_\_

**SECRETARY** (Vote for one)

\_\_\_\_\_ **Milagros Delgado**                      or \_\_\_\_\_

**COUNCILOR/ALTERNATE COUNCILOR** (Vote for 2 first choices, 2 second choices, and 1 third choice).

	1st Choices	2nd Choices	3rd choice
<b>Milagros Delgado</b>	_____	_____	_____
<b>Micahel Elliott</b>	_____	_____	_____
<b>George Duncan</b>	_____	_____	_____
<b>George Fisher</b>	_____	_____	_____
<b>Venkatesh Shanbhag</b>	_____	_____	_____

or write in name \_\_\_\_\_

## Congratulations To

### Dr. Kathleen C. Taylor who was elected as an ACS fellow at the recent Boston ACS meeting.

192 distinguished scientists have been elected as 2010 Fellows of the American Chemical Society. These ACS members were selected based on their outstanding achievements in and contributions to the science, the profession, and their excellent service to the Society. The Fellows represent a wide range of disciplines and geographic locations, representing 33 technical divisions and 79 local sections. The 2010 class also includes distinguished scientists and engineers from industry, academia, and government. A complete list of the Fellows can be found in the August 2, 2010 issue of C&EN. For additional information on the ACS Fellows Program, go to [www.acs.org/fellows](http://www.acs.org/fellows) or send an email to [fellows@acs.org](mailto:fellows@acs.org).

### Dr. Jesse D. Bernstein for receiving the ACS James Bryant Conant Award in High School Teaching Award

Master teacher, champion of demonstrations and laboratory programs, teacher of teachers, and dedicated contributor to education in chemistry, Dr. Bernstein was recognized for his outstanding high school chemistry teaching by the Cleveland section of ACS. We are fortunate to now have Dr. Bernstein in the South Florida section where he teaches chemistry at Miami Country Day School, Miami Shores.

### Barry University and FIU Biscayne Bay ACS Student Chapters

for "Outstanding Chapter" awards from national ACS for their activities during 2009-2010 academic year. In addition, the FIU Biscayne Bay chapter will also receive an ACS "Green Chemistry" award. The awards will be presented at the Spring ACS national meeting in Anaheim, CA in March, 2011.

---

## Officers of the South Florida Section ACS for 2010

Acting Chair: Konstantinos Kavallieratos, Dept. of Chemistry & Biochemistry, FIU, University Park, Miami, FL 33199 (305) 348-6034; [kavallie@fiu.edu](mailto:kavallie@fiu.edu).

Chair: Richard Shreve, Palm Beach Community College, Boynton Beach, FL 33472; 561 512-0737; [shreve@pbcc.edu](mailto:shreve@pbcc.edu).

Secretary: Milagros Delgado, Department of Chemistry, FIU Biscayne Bay, AC1-382A, North Miami, FL 33181, (305) 919-5966; [delgadam@fiu.edu](mailto:delgadam@fiu.edu).

Treasurer: Leonard Keller, Department of Chemistry & Biochemistry, FIU, University Park, Miami, FL 33199, (305) 348-3081; [kellerl@fiu.edu](mailto:kellerl@fiu.edu).

National Councilors: Zaida Morales-Martinez (2012), 305 386-3206, [moralesz@fiu.edu](mailto:moralesz@fiu.edu); Milagros Delgado (2010), FIU, 305 919-5966, [delgadam@fiu.edu](mailto:delgadam@fiu.edu); George Fisher (2010), Barry University, 305-899-3430, [gfisher@mail.barry.edu](mailto:gfisher@mail.barry.edu).

Alternate Councilors: George Duncan, Broward County Sheriff's Crime Lab, 954 831-6147, [george\\_duncan@sheriff.org](mailto:george_duncan@sheriff.org); Vic Shanbhag, Nova Southeastern University, 954 262-8331, [shanbhag@nova.edu](mailto:shanbhag@nova.edu); Richard Shreve, Palm Beach Community College, 561 512-0737, [shreve@pbcc.edu](mailto:shreve@pbcc.edu).

**SoFlacs**, the publication of the South Florida Section, American Chemical Society, is published quarterly in the Spring, Summer, Fall, and Winter. Subscription rate is \$4.00 per year or \$1.00 per copy. Third class postage paid at Miami, FL.

**EDITOR and BUSINESS MANAGER:** George Fisher, Department of Chemistry, Barry University, 11300 N.E. 2nd Ave., Miami Shores, FL 33161, (305) 899-3430, FAX (305) 899-3479; e-mail: [gfisher@mail.barry.edu](mailto:gfisher@mail.barry.edu).

**CIRCULATION:** Send post office form 3579 to Circulation Dept. SoFlacs, c/o George Fisher, Department of Chemistry, Barry University, 11300 N.E. 2nd Ave., Miami Shores, FL 33161, (305) 899-3430, FAX (305) 899-3479.

**SoFL-ACS WEB SITE:** <http://www.soflacs.org>

**NATIONAL ACS WEB SITE:** <http://www.acs.org>

**ADVERTISING:** Send inquiries or camera ready copy to the Editor/Business Manager, with check made out to "South Florida Section ACS". A 10% discount will be given for four consecutive prepaid advertisements. All materials should be supplied copy ready. Additional cost will be charged if preparation of copy is done by **SoFlacs**.

**-ADVERTISING RATES PER ISSUE-**

Business card size \$25.00

Half page \$75.00

Quarter page \$40.00

Full Page \$125.00



AMERICAN CHEMICAL SOCIETY  
South Florida Section  
Department of Chemistry  
Barry University  
11300 NE 2nd Ave.  
Miami Shores, FL 33161

NON-PROFIT  
ORGANIZATION  
U.S. POSTAGE  
PAID  
MIAMI, FL  
PERMIT NO. 4740