American Association of Cardiologists of Indian Origin

NOVEMBER 1999 NEWSLETTER

President's Page

I would like to welcome all the members of the AACIO and its guests to the semi annual meeting to be held at the Haveli Restaurant Downtown, 225 Spring Street, ATL, 30303 (Telephone 404-522-4545) on Sunday November 7, 1999 from 6:00 pm onwards. We have planned several activities for the evening, including Grand Rounds by Stephan P. Glasser, M.D., Professor of Medicine, Director of Clinical Pharmacology and the Cardiovascular Unit for Research and Education, University of Florida Health Sciences Center at Tampa. The title of the Grand Rounds is: Is lowering blood pressure enough? The role of arterial elasticity in cardiovascular disease. A Young Investigator's Competition and Award Ceremony has also been planned. Please attend the meeting, and make it successful.

In the past few months after our meeting at the American College of Cardiology, I am pleased to report significant milestones which have been achieved by your Association:

First of all, the directory of AACIO has now been completed, and mailed to all the members. This product is a result of untiring efforts of Dayan Naik, M.D. and Navin Nanda, M.D. and several others. Congratulations, and thanks Dayan and Navin for a job well done! Let us help Dayan and Navin by giving them any changes in addresses, telephone or FAX numbers. A form is included in this newsletter, please fill it in, and sent it via FAX to the treasurer, Rama Gopal Mudumbi.

The next achievement is that the IRS has now recognized the AACIO as a tax exempt organization under 501 (c) (3). I consider this as a major milestone for AACIO (before this, we were classified as 501-c-6). I would like to thank all those who assisted in getting change in our status.

The finances, which are under the capable hands of our treasurer, Rama Gopal Mudumbi, are in good shape. This year's semi annual meeting has been sponsored by Solvay Pharmaceutical, Inc. of Marietta. Our sincere thanks to Ms. Karen Franks who helped us in all the plans.

Dr. Madhukar Deshmukh has again taken full charge of editorship of the current newsletter, as you know, he has been spending countless hours in publishing several of the past newsletters. I would vote to give Madhukar a big hand for his exceptionally well done job!

Our association is a growing one, and needs to grow even more. We have several cardiologists of Indian Origin in the U.S. and Canada, but our membership is still not large enough. I suggest that each one of us makes an extra effort to bring more members.

One area which needs to grow is the younger cardiologists-fellows, and younger cardiologists who join faculty and practice. Let us bring all the junior members to join the association!

Atul R. Laddu, M.D., Ph.D.

Historic meeting of the Association of Black Cardiologists and Asian Indian Cardiologists

Historic meeting of the Association of Black Cardiologists and Asian Indian Cardiologists to collaborate on issues of cardiovascular medicine and cultural diversity was held on July 8-11 at the Boca Raton Resort and Club in Boca Raton, Florida.

The Association of Black Cardiologists, Inc. (ABC) and several cardiologists of Indian origin practicing in this country, held a historic meeting in Florida to discuss contemporary issues in cardiovascular medicine and establish future cooperation between ABC and Indian cardiologists, not only in scientific endeavors, but also in other areas of mutual cultural and medical interests. In particular, Asian Indians around the world have the highest rates of coronary artery disease (CAD), even though approximately half of these individuals are life-long vegetarians. When compared to Whites, African-Americans, Hispanics and other Asians, the CAD rates among Asian Indians worldwide are two to four times higher at all ages and five to ten times higher in those younger than 40 years of age. Dr. Navin C. Nanda, Board Member of ABC, founding President of the American Association of Cardiologists of Indian Origin (AACIO) and past President of the American Association of Physicians from India stated, "We are very sensitive to the issues of medical collaborations between ABC and cardiologists of Indian origin because approximately 75% of African-Americans treated origin while only 15,000 African-American physicians. Of these numbers, approximately 2,500 physicians of Indian origin are cardiologists while only 700 cardiologists are African-American". Dr. B. Waine Kong, ABC Chief Executive Officer stated, "ABC welcomes the opportunity to open the door for a collaboration between our two cultures". Further, "...it is time that we collectively bridge the gaps towards better cardiovascular health care for all people in the United States. Understanding and appreciating our cultural differences and sensitivities will not only improve our relationships, but create a better environment for appropriate health care delivery". Both groups are planning to make this conference an annual event.

Navin C. Nanda, MD

AACIO Account Summary

as of August 31, 1999

Checking Account	Credit	Debit	Balance
1/1/99			$45,365.74
Membership Dues	$11,160.00		
Member Donations	$400.00		
Pharmaceutical Donations	$5,500.00		
Miscellaneous	$680.00		
Honorarium: Dr. N. Kaplan		$1,500.00	
Reimbursements: Trophy, postal, etc.		$429.26	
Reimbursements: Spring (ACC-99) Mtg.		$9,651.53	
Young Investigator Awards		$1,000.00	
Bank Charges		$186.83	
Spring Newsletter (printing & mailing)		$624.10	
AACIO - 1999 Directory (printing & mailing)		$20,113.81	
Total	$17,740.00	$33,505.53	$29,600.21
Beginning (1/1/1999)			$45,365.74
Credits	$17,740.00		
Debits		$33,505.53	
Ending (8/31/1999)			$29,600.21
Northern Funds (US Govt. Select)			$10,967.40
Certificate of Deposit			$9,656.14

Ramagopal Mudumbi, Ph.D., Treasurer

Minutes of the Board Meeting

March 6, 1999 meeting of the American Association of Cardiologists of Indian Origin (AACIO)

A meeting of the Executive Committee of AACIO was held at the Hilton in New Orleans at 6:30 p.m. on March 6, 1999.

Present at the meeting were: Drs. A. Laddu, S. Swaroop, S. Sharma, D. Naik, N. Nanda, M. Deshmukh, V. Ram, R. Sanyal, R. Dhurandhar. Guest present was: Dr. B. N. Singh.

Dr. A. Laddu called the meeting to order and the following subjects were discussed:

1. Minutes of the last meeting were approved.
2. Dr. Sanyal presented the financial statement for the organization on behalf of Dr. R. V. Mudumbi, PhD., our Treasurer, who was at the registration desk.
3. Dr. D. Naik presented the new AACIO Directory. He has put forth a lot of effort and time in the preparation of this first such directory. He informed us that this directory will be available in the next few weeks to all the members. His efforts and input was applauded by all of the board members. Also, he was advised to add the list of the life members of the organization in this directory. This would encourage other regular members to contribute and be a life member.
4. It was unanimously passed that the board meeting should be held at least one hour before the evening program for the bi-annual meeting of the association for the general membership.
5. The lack of interest for the young investigators participation was discussed. The comm r the selection of the abstracts for the young investigator awards was again appointed by the board as follows:
   a. Dr. Jawahar Mehta, Chair
   b. Dr. Navin Nanda, Co-chair
   c. Dr. Rajat Sanyal and Dr. Venkat Ram
6. Dr. Laddu informed the attendees regarding the status of the association with the Internal Revenue Service (IRS). Presently, we have a 506-C-3 and we are pursuing to achieve the status of 501-C-3 by the IRS for our organization which really has been a non-profit organization for many years.
7. After a long discussion of our effort to increase the membership, Dr. Dayan Nayak was advised to write letters to the members encouraging them to be a life member of the organization. This would accomplish larger participation as well as improve the financial status of the association.
8. In order to support six monthly meetings for the association, which have traditionally been coordinated with the ACC and AHA Annual Conventions, efforts would be made to find a major sponsor to meet the expenses of our meeting. We will try to coordinate these sponsors for medical education and exhibit programs at these meetings.

There being no further topics of discussion, this meeting was adjourned. This meeting was followed by the regular dinner and meeting with lectures by the guest speaker and presentations by the young investigators for award.

Thank you very much. I look forward to seeing you at the next meeting in November, 1999 and the AHA convention.

Thankfully submitted,

Sukh Dev Sharma, M.D., F.A.C.C., Secretary, AACIO

Honorees for the Fall Meeting

The Award Committee of AACIO has chosen two distinguished cardiologists for the "Excellence in Science" award, during the Fall meeting of the Association, on November 7, 1999, in Atlanta. They are Bodh Jugdutt, M.D., FRCP(c), FACC, from Edmonton, Canada and Saroja Bharati, M.D., FACC, from Chicago, Illinois.

Bodh Jugdutt, M.D., is Professor of Medicine, Division of Cardiology, and Research, Director of Adult Cardiology at the University of Alberta, in Edmonton, Canada. He graduated in medicine from the University of Glasgow, Scotland, in 1970 and finished his internship in the University Hospital there. He moved to Edmonton, Canada in 1971 and completed his training in internal medicine and cardiology at the University of Alberta Hospital, in Edmonton, obtaining M.Sc. in Experimental Medicine in 1976. He spent three years at the Johns Hopkins University Hospital as a fellow in clinical cardiology and instructor in medicine and cardiology. In 1979 he returned to the University of Alberta and Hospitals in Edmonton, where he was promoted to his current positions.

Bodh Jugdutt, M.D.

Dr. Jugdutt's pioneer research in protection and salvage of myocardium, with the use of B-Blockers and Nitroglycerine is the basis of current practice and AHA/ACC guidelines in the treatment of acute myocardial infarction. He is currently working on the mechanism and modification of ventricular remodeling during healing of reperfused infarcted myocardium.

Dr. Jugdutt has received many professional awards, as a teacher and research worker. In addition to fellowships in many professional organizations, he was awarded Senior Investigator Award of Alberta Heritage Medical Foundation, International Sir Lauder Branton Award for outstanding nitrate research, M.R.C Distinguished Scientist award, and many others.

Dr. Jugdutt has published 135 papers, 17 book chapters and many abstracts. He is on the editorial board and expert reviewer for many journals in cardiovascular field, and has earned international recognition in the area of cardiac remodeling.

Saroja Bharati, M.D.

Saroja Bharati, M.D., F.A.C.C., is the Director of the Heart Institute for Children, Maurice Lev Congenital Heart and Conduction System Center, Chicago, Illinois. She has devoted her entire professional life to the study of congenital heart disease and conduction system of the human heart. She is a familiar figure at scientific meetings of A.H.A. and A.C.C., where along with her mentor, Dr. Maurice Lev she has been exhibiting specimens of malformed hearts. After the death of Dr. Maurice Lev, Dr. Bharati has taken over the mission of studying congenital heart defects and abnormalities of the conduction system.

Dr. Bharati graduated from the University of Madras and joined Dr. Maurice Lev in the late 1960's. Together they dissected over 7,000 specimens of congenitally abnormal hearts. She has published well over 370 articles in reviewed journals. She is the author of "Cardiac Conduction System in Sudden Death", published in 1990, and is co-author, with Maurice Lev and John Kirklin Sr., of the book "Cardiac Surgery and the Conduction System of the Heart", originally published in 1983 and revised in 1992. Her work along with Dr. Lev, on the conduction system of the heart and its correlation with electrophysiology, esstablished the ground work for ablation therapy for the treatment of various arrhythmias with radiofrequency and other devices. She, along with Maurice Lev, is the author of "The Pathology of Congenital Heart Diseases - A Personal Experience with more than 6300 Congenitally Malformed Hearts", published in two volumes. Frederick J. Schoen, M.D., Ph.D. of Brigham and Women's Hospital, in Boston, Mass., in his review of the book in J.A.M.A., October 1996, wrote: "As a leader in a small cadre of cardiovascular clinicians and pathologists with a comprehensive understanding of and experience in morphology of congenital heart diseases, Dr. Bharati, (over 25 years) and the late Dr. Lev, (over 60 years), have made immense contributions. This impressive, informative and richly illustrated two volume work of more than 1500 pages summarizes their experience with the evaluation of over 6300 hearts."

Bharati is a popular teacher and teaches in all the six schools in Chicago. She is a visiting professor, visiting prestigious cardiac centers, in the U.S. and abroad, lecturing on congenital heart diseases and abnormalities of the conduction system.

Editor's Page

I join the president of AACIO, Atul R. Laddu, MD, in cordially inviting you to attend the Fall Meeting on November 7th, 1999 in Atlanta, GA. Atlanta is a nice place to visit in the autumn, and in addition to attending the scientific session it is a most gorgeous southern city to have fun. Dr. Laddu, in his President's message, has outlined the achievements of the Association over a period of many years. I am particularly proud of the Young Investigator Award, which was started in 1995 during my presidency.

I have been the Editor of the Newsletter since 1995, and this has been a kind of labor of love. However, with the passage of time, one gets stale, and this is the right time to infuse new blood. As I have stated in previous newsletters, gathering newsworthy items for these events is an arduous task requiring many hours of work. In this context I would like to take this opportunity to express my appreciation of the help rendered by my colleagues, particularly Drs. Ivan D'Cruz, Jawahar Mehta, Navin Nanda, Atul Laddu, and many others.

I request the Executive Committee to select a suitable person to take over the Editorship, starting from the Spring Meeting in the new millenium.

Madhukar M. Deshmukh, MD

Conference Announcements

The International Update on Cardiology and Workship in Echocardiography will be held December 19 at Bombay Hospital, Mumbai, India and the **World Con[illegible] Non-invasive and Invasive Cardiology**, December 24 [illegible]99, Rajkot, India. Jointly sponsored by University of Alabama School of Medicine, UAB Division of Continuing Medical Education, UAB Heart Station/Echocardiography Laboratories; The International Society of Cardiovascular Ultrasound, Association of Physicians of India; Medical Council of India, New Delhi, India; Bombay Hospital and Medical Research Center, Bombay, India; H.J. Doshi Hospital and Medical Research Center and Cardiology Education and Research Foundation, Rajkot, India. The University of Alabama School of Medicine designates this educational activity for a maximum of 36 hours in Category 1 credit (9.5 hours for Mumbai; 26.5 hours for Rajkot) towards the AMA Physicians Recognition Award. Registration fee is US $195.00. For futher information, **contact Dr. Navin C. Nanda**, phone: 205-934-8256; fax 205-934-6747; email: lindyc@uab.edu.

The 4th World Congress of Echocardiography and Vascular Ultrasound will be held January 19-21, 2000 at the Mena House Oberoi Hotel in Cairo, Egypt (under the patronage of Egyptian Ministry of Health). President, Prof. Dr. Osama Abdel-Aziz; International President, Dr. Navin C. Nanda. Cosponsored by the Association of Black Cardiologists, the International Society of Cardiovascular Ultrasound, Egyptian Society of Cardiology, American Association of Physicians from India, Egyptian Society of Atherosclerosis, Egyptian Society of Cardiac Surgery, Egyptian Society of Internal Medicine, Mediterranean Society of Cardiology and Cardiovascular Surgery, and Society of Geriatric Cardiology. The Association of Black Cardiologists designates this continuing medical education activity for 26 credit hours in Category 1 of the Physicians Recognition Award of the American Medical Association. **Pre-Congress Nile cruise**, January 15-18, 2000. Post-Congress Nile cruise is also available. Registration fee is US $200.00 before November 30, 1999, after this date: US $250.00. Cruise cost US $985.00 per person/double occupancy. For futher information, please **contact Dr. Navin C. Nanda**, 619 South 19th Street, Birmingham, Alabama 35249-6846 or Lindy Chapman. Tel: 205-934-8256; Fax: 205-934-6747; email: lindyc@uab.edu.

16th Annual International Conference on Recent Advances in Echocardiography, will be held on March 11, 2000 in Anaheim, California, just prior to the American College of Cardiology meetings. Director: Navin C. Nanda, M.D. For information contact: Lindy Chapman or Blanche McCoy, University of Alabama at Birmingham, Heart Station, SW/S102, 619 19th Street South, Birmingham, AL 35249-6846. Tel: 205-934-8256; Fax: 205-934-6747; E-mail: lindyc@uab.edu.

People in the News

Pravin M. Shah, MD

Dr. Shah received "Gifted Teacher Award" presented by the ACC during the 48th Scientific Session in New Orleans in March 1999. The College recognized the contributions Dr. Shah has made to cardiovascular medicine through the teaching of students, residents, and fellows, as well as the practicing cardiologists. His original contributions to echocardiography, when the field was in its infancy, are well recognized. Dr. Shah was the president of our Association from 1988-1990.

R. Vijayanagar, MD

Dr. Vijayanagar was presented with "Distinguished Physician Service" award by AAPI at its recent convention for his selfless services to AAPI as the Chairman of the Board of Trustees. He is a founding member of AACIO, and was honored for his clinical and scientific contributions to the field of cardiovascular surgery during its Fall meeting in November 1998. He performed the first heart transplant in Florida in 1985 and by now the total exceeds 200. The Heart Institute at Bayonet Point Regional Medical Center in Hudson, Fl., which he started ten years ago was considered among the 50 best hospitals in the country for cardiovascular surgery and cardiology by US News and World Report. AACIO congratulates Dr. Vijayanagar for his achievements.

Dayan Naik, MD

Dr. Naik deserves applause for compiling the Directory of all the AACIO members. This is a monumental opus, illustrated with photographs of the members and their families and finely printed. Dr. Naik is joint-secretary of AACIO and President-elect of AAPI for the year 2000. The next AAPI meeting will be in New York City in June 2000, and all AACIO members are urged to attend. He is also very active in raising funds for charitable organizations.

Samin K. Sharma, MD

Dr. Sharma was the Course Director of the symposium "A Live Symposium of Complex Coronary Cases Focusing on Rotational Atherectomy, Stent, and New Interventional Therapeutic Devices" in New York, N.Y. on June 17 and 18, 1999. This course was attended by many interventional cardiologists and covered diverse topics from intervention in unprotected main left coronary artery to Biosense NOGA mapping and Gene therapy. Dr. Sharma is Associate Professor of Medicine and Director of Cardiac Cath. Lab. and Intervention, Cardiovascular Institute, The Mount Sinai Medical Center, New York. He is known for his expertise in Rotablator atherectomy and is in great demand as a speaker and demonstrator of his techniques at national and international meetings and trains many physicians of Indian origin in his program.

Jawahar Mehta, MD

Dr. Mehta is the chairman of the Award Committee of AACIO. He is a renowned vascular biologist and has published extensively on endothelium and its biological role. He recently visited Beijing on invitation of the Chinese Ministry of Health to discuss the issues of evolution of atherosclerosis and cardiovascular diseases. He addressed the faculty and student of Beijing Medical University, the Military Medical University, and Institute of Geriatric Cardiology. His presentation on the regulation of novel Lectin-type receptors on coronary artery endothelial cells by angiotensin 11, published in Circulation Research, May 1999, generated a great deal of interest. Dr. Mehta said that he was impressed with the wealth of knowledge of young Chinese scientists. He is Professor of Medicine and Physiology and Director of the section of Vascular Biology at the University of Florida College of Medicine in Gainesville. This summer he was honored by his university with an endowed U.F. Research Foundation professorship.

The Decline and Fall of Cardiac Auscultation

Ivan A. Cruz. M.D., F.R.C.P., Professor of Medicine, University of Tennessee

In the early nineteenth century, a frail tuberculous French physician invented the stethoscope, and founded the science of auscultation by describing most of the normal and abnormal heart sounds and breath sounds, and validating them at autopsy. This one man, Laennec, contributed more to clinical medicine than Shakespeare to literature or Newton to Physics. Over the rest of that century, various British or French physicians added a few new auscultatory signs, establishing eponymous footholds for themselves in medical textbooks for generations.

Meanwhile, the small conical wooden device Laennec interposed between ear and chest gradually evolved into the binaural stethoscope of the twentieth century, with rubber tubing and metal chest piece. Even formidable three-headed chest pieces exist, suitable for use as weapons against muggers in hospital parking lots.

Over this period, the stethoscope gained a significance far beyond its auditory capabilities. To patients everywhere, it became a symbol of the medical profession itself, a mystical channel through which all knowledge of the patient's disease flowed instantly from the latter's thorax to the doctor's brain. Cardiologists were particularly credited, above all other physicians, with an extraordinary ability to divine the stethoscope's secrets; patients paid handsomely to have a renowned cardiologist place his distinguished hands and stethoscope on their chests and make oracular pronouncements on the malady or fitness of their hearts.

Those of us who took the M.B.B.S. or M.D. exam at Indian universities, or the M.R.C.P. exam in Britain, will recall cardiac auscultation as one of the more hazardous hurdles of the practical test. One was expected not only to identify a murmur but also the six or eight attributes of a murmur, especially in the higher specialist examinations. Possibly that still holds true today in the best centers in India and other Commonwealth countries, where British standards and traditions fortunately continue to prevail, half a century after British governments departed from those shores.

Some of us senior AACIO members were fortunate to have been initiated into the intricacies of cardiac sounds and murmurs during the golden area of auscultation, the nineteen fifties and sixties, when Paul Wood and Aubrey Leatham in England and Proctor Harvey in the USA, and many other eminent exponents of phonocardiography, married the precision of phonocardiograms and pulse tracings (or apex cardiograms) to the equally precise numerical data of hemodynamics, so that what formerly could only be appreciated by the ear and palpating finger was now enhanced to a higher level of scientific accuracy. Graphic recordings of cardiac events could thus be used to reliably predict cardiac pathophysiology. By repeated correlation of phono and pulse tracing with cardiac cath data, experienced cardiologists in that era trained their auditory apparatus and fingers to an amazing degree of accuracy. For instance, it was possible for such an expert to judge the interval between the two components of the pulmonic second sound to within a hundredth of a second.

Another impetus to proficiency in auscultation was the discovery of new entities such as mitral prolapse and hypertrophic cardiomyopathy, about 40 years ago. These cardiac syndromes, previously unknown but to the amazement of cardiological pundits, found to be common, manifested by important and often typical murmurs or clicks.

After the golden years of auscultatory progress, there followed, instead of a progress to greater heights of diagnostic sophistication, a regrettable decline, a pathetic atrophy of what the previous generation had achieved, a sad crumbling of the edifice of auscultatory diagnosis painstakingly constructed over many decades.

Clinicians today, otherwise quite intelligent and capable, spend little time on practicing or teaching auscultation, although they do tote elegant stethoscopes which make perfunctory contact with their patients' chests.

How did this decline come about? Why did the science of auscultation suffer disuse atrophy? How did the art of auscultation, like unplucked grapes, wither on the vine? One reason for this was the success of echocardiography and Doppler, which quickly displaced phono-, apexcardiography, etc., from the noninvasive cardiac field. The fact that Echo-Doppler is richly remunerative and very widely applicable for any and all indications enhanced its popularity, predictably, with physicians and hospitals. The general trend away from bedside examination, in which there is little money, to diagnostic imaging by various technologies, in which there is much money, is one that progressed steadily and inexorably through all of this half-century. Every patient in the practice setting is investigated to the maximum extent justifiable, which gladdens the hearts not only of practice groups and hospital administrators, but also of the imaging-industry manufacturers. There was nothing to retard the exuberant hypertrophy of lab test applications until the recent stringent curbs of managed care.

Auscultation consists of more than the recording of blips or vibratory squiggles representing sounds or murmurs, on a graphic tracing. What the cardiologist hears are voices, voices from the throats of crippled valves or anguished cardiac chambers that cry out to us, the expert practitioners and teachers of auscultation, who have learned to understand this language through long experience. Those of us who have trained our ears, and the cerebral cortex reposing between those ears, are a breed gradually becoming extinct.

We live in times when circumstances require clinicians to spend more time in front of computer screens and filing forms than in face-to-face patient encounters; when the finger-tips of housestaff are occupied ten times as much tapping computer keys than palpating cardiac or arterial pulsations. Ambitious cardiac Fellows with agile hands wander zealously through the boundless spaces of the Internet, encumbering their minds with masses of cardiological erudition published over the last few months. But that leaves them little time to listen diligently and thoughtfully to messages that their patients' hearts utter into their stethoscopes.

Winners of the AACIO Young Investigator Awards

The winners of the AACIO Young Investigator Award this year and their topics of research are: Jason Mehta, Gainesville, FL "Upregulation of endogenous anti-oxidant species by vitamin C in human coronary artery endothelial cells"

Deepak L. Bhatt, MD "Abciximab reduce death in diabetics following percutaneous coronary intervention"

These individuals will present their research findings at the annual AACIO meeting on November 7, 1999 at 7:00 pm in Haveli Restaurant, Atlanta, GA

AMERICAN ASSOCIATION OF CARDIOLOGISTS OF INDIAN ORIGIN

cordially invites you to the

FALL DINNER MEETING

Sunday, November 7th, 1999

at

HAVELI RESTAURANT DOWNTOWN

225 Spring Street, Atlanta, Ga 30303 - Tel. 404-522-4545

6:00 pm – Executive Committee Meeting · 6:30 pm – Social Hour
7:00 pm - Grand Round – Stephen P. Glasser, MD. Professor of Medicine and Director of Clinical Pharmacology, University of Florida Health Science Center at Tampa.
"Is Lowering of Blood Pressure Enough? Role of Elasticity in Cardiovascular Disease."
7:30 pm - Young Investigators' presentations and Awards
8:00 pm - Presentation of Awards to Distinguished Honorees
8:30 pm - Dinner

RSVP — Ramagopal Mudumbi, Ph.D.
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I will attend - Name _____

Number of Guests _____

Change of Address, Tel., Fax _____

AACIO NEWSLETTER

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