



IISc Alumni

Newsletter of IISc Alumni Association

Volume 8 Issue 3 July 2017

Dr. Srinivasan Rajagopalan Award Function



IIScAA hosted the second Dr.Srinivasan Rajagopalan award function on 8th April, 2017 at 4.00 p.m. at the Faculty Hall of IISc. Prof. Anurag Kumar, Director, IISc and Patron, IIScAA along with the president of the IIScAA Dr.L.N.Satapathy presented the award to Dr. Anshu Pandey, Assistant Professor, Solid State and Structural Chemistry Unit of IISc. Dr. Anshu Pandey received the cash award of Rs.1 Lakh and a citation

from the Director, for his significant contribution in Chemistry of optoelectronic materials. Many alumni, faculty and students of IISc attended this function.

On this occasion, Dr. Pandey delivered a short talk on the topic "Quantum Dots: Customizable Artificial Atoms". Quantum dots are semiconductor particles of a few nanometers in size exhibiting unusual properties. Their behavior cannot be described either as atom-like or as bulk-like, and is distinct from both. The new physical properties that emerge in quantum dots offer several opportunities and challenges. A few examples of the unusual phenomena that are observed in these materials were described.

The quantum dot compounds resemble ionic solids with very large atoms and exhibit unusual, counterintuitive chemical and physical properties. Further, he showed how these novel properties can be tailored to suit particular applications, giving rise to unnatural and seemingly paradoxical materials. Opportunity in considering quantum dots as artificial atoms for building still more unusual structures was detailed.



From the Editorial Committee

Dear Reader,

IIScAA has been facilitating to bring to fore experts from wider variety of areas, from healthcare to nanotechnology, from societal innovations to exploring life in outer space.

The activities of IIScAA highlights that the IIScians are well implementing the knowledge acquired and contributing beyond that.

While we encourage the students of IISc by funding their activities to pursue their research aspirations and nurture the talents, recognizing highest achievements of IISc Alumni is our continuous ongoing efforts.

This newsletter brings in such instances of these activities of IIScAA.

Our efforts for getting larger number of membership enrolment is constantly increasing, this time, by addressing IISc graduates in the convocation and other opportunities. With the AGBM and IIScAA election ahead, the IIScAA aims to mark further successful milestones in all aspects.

Please feel free to express your views about our newsletter by email to: iiscaanlg@yahoo.com.

H Saroja Devi, H K Anasuya Devi, S Ramachandra

Travel Assistance to IISc Research Students

IIScAA sponsored Rs.35,000/- each to the following IISc research students towards the Travel Assistance for attending the International Conferences as mentioned below.

Name: Ms. Sudipta Dutta

Organiser: International Centre for Theoretical Physics

Title: Trends in Nano Tribology 2017

Venue: Tireste, Italy,

Date: June 26-30, 2017

Name: Mr. Ravi Verma

Organizer: Cryogenic Engineering Conference - ICMC 2017

Title: International Cryogenic Material Conference

Venue: Madison, Wisconsin

Date: July 9-13, 2017

Upcoming Events

1. IIScAA supports the event "IISc Startup Meet" with the sponsorship of Rs.12000/-, organised by EntIISc, scheduled on August 3, 2017 from 2 pm onwards @ the Faculty Hall, IISc.
2. The 3rd IIScAA Prof.M.Vijayan Lecture will be delivered by Prof.Eleanor Joy Dodson, Emeritus Professor, University of York, UK, on the topic - "Cross Fertilisation: How Crystallography has built on Mathematics", scheduled on August 17, 2017 at 4.00 p.m. at the Faculty Hall, IISc.
3. WiSER Talk by Prof. Sen Gupta and Panel Discussion on August 19, 2017 from 3.00 p.m. onwards at the Faculty Hall, IISc.
4. Prof.S.K.Chatterjee Award and Prof.N.Appaji Rao-Best Mentor Award Functions on September 1, 2017 at 4.00 p.m. at the Faculty Hall, IISc
5. Announcement of Election Results for the Executive Committee of IIScAA for the term 2017-2019 on or before September 8, 2017
6. Annual General Body Meeting of IIScAA on September 24, 2017 between 11 a.m. and 2.00 p.m. at the Faculty Hall, IISc.

IIScAA Science Forum - Popular Lecture Series

The Fifty Seventh Lecture (April 1, 2017)

Topic: Innovations on the HVDC Transmission Technology and Applications

Speaker: Prof. K.R. Padiyar (Emeritus) IISc



This Lecture was dedicated to the memory of Late Shri. M. S. Vasudeva of Electrical Communication Engineering Department, IISc. After a brief introduction,

advancement in the technology was discussed. Siemens brought in a major innovation in 2010 using cascaded multilevel VSC converter topology, labeled as Modular Multilevel Converter (MMC). This reduces the power loss in the converter to a quarter of the losses with Voltage Source Converter (VSC) operating with Pulse Width Modulation (PWM). There are ambitious plans of overlaying all of Europe's 400 kV AC network with a 800 kV DC grid with a combined capacity of 750 GW. Similarly, there are plans to tap 6000 MW of offshore wind in Eastern USA using DC links. The application of HVDC is still expanding for hydro power and transmission over long distances (say 2000 km) using about 800 kV overhead transmission lines. The other innovations are, conversion of AC lines into DC, active DC filters, convergence with FACTS controllers, application of DC for system stabilization, power utilization using DC Microgrids particularly in remote areas.

IIScAA Science Forum - Popular Lecture Series

The Fifty Eighth Lecture (June 10, 2017)

Topic: Lifestyle and Cancer

Speaker: Dr. K Govind Babu, Professor of Medical Oncology, Kidwai Memorial Institute of Oncology

Moderator: Dr. M.P. Ravindra



IIScAA organised the 58th Science Forum Lecture by Dr. K. Govind Babu, Professor of Medical Oncology, Kidwai Memorial Institute of Oncology, on the topic "Lifestyle and Cancer" held on June 10, 2017 at 4.00 p.m. at the Faculty Hall, IISc. Dr. M. P. Ravindra, President-Elect, IIScAA was the Moderator for this Lecture.

Dr. Govind Babu introduced varied faces of cancer as a disease, alerted audience to consider changing lifestyles and explained its contribution in the cause of cancer. He also elaborated on how many of these cancer varieties can be prevented.

ELECTION NOTICE for IIScAA Executive Committee ONLINE Election for the term 2017-19

To
All the Members of IIScAA

Nominations to the Executive Committee of IIScAA

The Elections are to be held for the following positions :

Vice President	:	Two
General Secretary	:	One
Joint Secretary	:	One
Treasurer	:	One
Members	:	Ten

1. Self-Nomination Forms only are accepted. (Nomination form is already sent to members by email)
2. All Nominations must accompany –
 - a) A brief write-up (approximately 200 words) about the candidate and why he/she should be elected and what he/she intends to do for the Alumni Association?
 - b) Soft/Hard copy of Passport size photograph
3. Nomination may please be sent to the Election Officer only by :
 - a) Post {superscribed - "Confidential–Election 2017-2019"} (to be opened by Election Officer Only)
 - b) E-mail (scanned copy) at : electioniiscaa@gmail.com

Please note the important dates and the cut off time is 5.30 pm for all dates.

- a*. Receipt of Self-Nomination at IIScAA office by hardcopy/ scanned email : 7-8-2017
- b. Scrutiny and Announcement of valid candidates, by email: 12-8-2017
- c. Withdrawal of nomination by the candidates (through email): 17-08-2017
- d. Final list of Nomination & details of ONLINE Election Process by the Election Officer: 21-8-2017

An alumnus of IISc can send self nomination in prescribed format, enclosing passport size photograph and a brief write up on why he/she should be elected, highlighting the contribution promised if elected & taken up the position.

On Behalf of the Executive Committee,

Sd/-

Lt. Col. G. Rajaram

Election Officer, IIScAA, Election 2017-19
IIScAA, IISc, Bangalore 560012
Email: electioniiscaa@gmail.com

NOTE – (a*) In case of non-receipt of nominations either through mail or by post, the returning officer can accept nominations in exceptional cases subject to the candidate showing proof of the self-nomination sent. However, the decision of the Election Officer in all such cases is final and binding.

Dear Friends,

We appeal you all to join hands with IIScAA, contribute liberally (even a 1% of your gross earning could help us to give a great thrust to this initiative). Please register your interest with the Alumni Association on Office or by sending an e-mail to: alumni@admin.iisc.ernet.in

We thank you for your gesture.

Editorial Committee: H Saroja Devi, H K Anasuya Devi, S.Ramachandra

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