

# ENSF

## THE EMERGING NATIONS SCIENCE FOUNDATION

### Newsletter

Number 3 and 4

September & December 2010

Dear Readers,

We are now towards the end 2010 with many new developments in our organizational structure and improved funding base. We have maintained all programs launched in 2008 to help develop science as well as improving science awareness by the public. We also continued the *ENSF Prize for Best Poster in Plasma Physics* for young scientist in developing nations. ENSF's policy to participate in international events shall also continue in the future to enhance its understanding as to where we should focus our efforts. Promising young scientists and highly motivated researchers from developing nations in Asia and Africa will remain to be our focal points.

During the second half of 2010, we consolidated our organizational structure by adding not only two new members to the Scientific Council, Professors Le Dung Trang and F. K. A. Allotey, but also staff to enhance public relation efforts and management. The newly appointed public relations officer is now assisting ENSF in its outreach efforts worldwide, with its goal to understand the needs of scientific institutions and young scientists in Asia and Africa. The general manager has begun to streamline the foundation's management and governance. He is not only an efficient manager, but also an excellent fund raiser. With their help and those of the Scientific Council, we shall continue to raise the level of excellence at ENSF.

Professor K. Tahir Shah

#### Scientific Programmes

##### • Travel and Research Grants

A partial travel grant was provided to **Dr. Riaz Khan** from the Pakistan Atomic Energy Commission (PAEC), Islamabad, Pakistan, to attend the 2010 ICTP Summer School on Plasma physics in Trieste, Italy.

A travel grant was provided to **Mr. M. Akram Safi** from the Department of Physics, Hazara University, Mansehra, NWFP, Pakistan, to return to Islamabad from South Korea and to proceed to attend Ph.D School in Physics, Astrophysics and Applied Physics, Department of Physics, University of Milan, Milan, Italy.

**Dr. Aeysha Khalique**, Assistant Professor, Centre for Advanced Mathematics and Physics (CAMP), National University of Science and Technology (NUST), Islamabad,

Pakistan, was awarded a full travel grant to attend the International Conference on Quantum Information, held at Sharif International Campus, Kish, Iran, from 11 to 14 September, 2010. It was organized by the Sharif University of Technology, Iran, and the Institute for Quantum Information Science at the University of Calgary, Canada.

**Dr. Farinaz Roshani** from Alzahra University and the Institute of Physics and Mathematics, Tehran, Iran, was awarded a full travel grant to attend the 23<sup>rd</sup> General Conference on Condensed Matter Division of the European Physical Society (CMD-23) held in Warsaw, Poland, from August 30 to September 3, 2010. The title of her poster presentation was: "Propagation of Information in the Genetic Networks".

**Ms Nigum Arshad**, Ph.D. scholar at Physics Department, Quaid-i-Azam University, Islamabad, Pakistan, was awarded a full travel grant to attend the International Conference on Quantum Information, held at

Sharif International Campus, Kish, Iran, from 11 to 14 September, 2010. It was organized by the Sharif University of Technology, Iran, and the Institute for Quantum Information Science at the University of Calgary, Canada.

- **Cooperation with Scientific Institutions**

**Dr. Mehdi Torabian**, a graduate from Sharif University in Tehran, Iran, was awarded a post-doctoral fellowship for a period of six months to conduct research in High Energy Physics (String Theory) at the Abdus Salam International Centre for Theoretical Physics, Trieste, Italy.

**Mr. Mohammed Arshad** from the National Centre for Physics, Islamabad, Pakistan, continued his pre-doctoral research at Elettra Sincrotrone Laboratory, Trieste, Italy, under a fellowship from ENSF and the Abdus Salam International Center for Theoretical Physics, Trieste, Italy.

- **Science for Public Grants**

**The Khwarizmi Science Society** of Pakistan ([www.khwarizmi.org](http://www.khwarizmi.org)) was awarded a grant of US\$3,500 to celebrate the International Year of Science. The society is dedicated to increasing public awareness of science in

Pakistan. Since popularization of science is one of its objectives, ENSF shall continue to help the Khwarizmi Science Society of Pakistan and other such institutions worldwide with their programs in the future.

- **ENSF Prize for Best Poster**

The *ENSF Prize for Best Poster in Plasma Physics*, is awarded to a young scientist for the best poster presentation during the annual Summer College on Plasma Physics held every year at the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy. A committee of internationally-known experts select the best poster presentation based on its scientific merit and eye-catching style of the public presentation.

student at the Centre for Plasma Physics, Queens University, Belfast, UK. Born in 1978, she obtained her M.Sc. from Jahangirnagar University, Bangladesh, in 2006. Her doctoral work is in non-linear propagation of electrostatic and electromagnetic waves in plasmas.

The 2010 prize was awarded to **Sharim Sultana**, a young woman scientist from Bangladesh, who is presently a pre-doctoral

The poster paper titled 'Dissipative Modulated Electrostatic Solitary Plasma Structures in the Presence of a Super-thermal Component' presented by Ms. Sultana was judged by Professors P.K. Shukla, R. Bingham, L. Stenflo, T. Mendonca and B. Eliasson.

## **New members of the Scientific Council**

Professors Francis K. Allotey and Le Dung Trang recently joined the ENSF Scientific Council. Professor Allotey is presently the President of the African Physical Society and Vice President of the African Academy of Sciences. Professor Le Dung Trang

supervised the Mathematics section of the Abdus Salam International Centre for Theoretical Physics, Trieste, Italy for many years until his return to France.

## International Collaboration

- **FOCUS ON AFRICA: Meeting with Eminent African Scientists and Policy Makers**

H.E. Professor Henri A. M. Dzinotyiweyi, Minister of Science and Technology Development, Zimbabwe, H.E. Mary Sibusisiwe Mubi, Ambassador of Zimbabwe in Italy, Professor Francis Allotey, President of the African Physical Society and Professor Arezki Benfdila from Algeria were invited to a dinner in their honor by the ENSF chairman, Professor Shah. It was also attended by the Foundation's public relations and management representatives to discuss science and technology development of African states and potential for ENSF focus on Africa. In 2011, ENSF is planning to expand further its programs in African nations.



*Clockwise, top right to left:* Professor Arezki Benfdila from Algeria, Mr. Dave Miner, ENSF Manager and Financial Advisor, Professor Francis Allotey, President of the African Physical Society, Mr. Mohamed Abdallah, ENSF Public Relations Officer, H.E. Professor Henri A.M. Dzinotyiweyi, Minister of Science and Technology Development, Zimbabwe, H.E. Mary Sibusisiwe Mubi, Ambassador of Zimbabwe in Italy, Professor K.T. Shah, ENSF Chairman.



*Clockwise, left to right:* H.E. Professor Henri A. M. Dzinotyiweyi, Minister of Science and Technology Development, Zimbabwe, Professor K.T. Shah, ENSF Chairman, H.E. Mary Sibusisiwe Mubi, Ambassador of Zimbabwe in Italy,

- **Dinner Meeting with Air Vice Marshal Khan of Pakistan Air Force**

ENSF chairman, Professor K. Tahir Shah met with Air Vice Marshal Saeed M. Khan of Pakistan Air Force and Defense Attaché of Pakistan Embassy in Rome,

G. Captain Arshad Wasti to discuss the creation of a new advanced technology research centre in Pakistan.

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