

PROCEEDINGS ON
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Recent Advances in Applied Sciences



(ICRAAS 2016)

February 11-13, 2016



Editor -in-Chief

Dr. S. Gunasekaran, Ph.D.,D.Sc.



Organized by

Science and Humanities Association

St. Peter's Institute of Higher Education and Research

St. Peter's University

Avadi, Chennai - 600 054.

and



Indian SpectroPhysics Association

Chennai, India.



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Dr. S. Gunasekaran, Ph.D., D.Sc.
Convenor – ICRAAS 2016

PREFACE

The world has witnessed many stunning advances through deploying Basic Sciences in a right manner. As we all aware that the Application of the basic sciences lead to a classification called Applied Sciences. The panoramic applied sciences offered the collaboration between sciences and showed the advancements as a result. In most of the cases, Applied Sciences cleverly handles the theory and practice of any principle, also possess greater accuracy, sensitivity and reliability.

The overwhelming response that we have received from Scientists and Researchers to this International Conference on Recent Advances in Applied Sciences (ICRAAS 2016) is ample evidence of this fact. From both Overseas and India, about forty senior and eminent Scientists have confirmed their participation in the conference. There will be forty-one invited talks relating to ongoing research in Applied Sciences, exactly of Physical Sciences, Chemical Sciences, Mathematical Sciences, Computer Science and Engineering. Five oral sessions and a poster session are scheduled to be held during the three day conference. The Conference Proceedings carries the research outcome of the researchers in the form of Full Research Papers and Abstracts.

The co-organizer of the conference is a registered body, called the Indian SpectroPhysics Association (ISPA), consists of Scientists and Researchers as its members. ISPA regularly honours Scientists with ISPA awards during the conferences. In ICRAAS 2016, ISPA honours Eminent Scientists with "ISPA Dr. S. Gunasekaran award, Veteran Scientist Awards, Life-Time Achievement Awards and ICRAAS 2016 Awards for the outstanding contributions in the field of research.

The contributed papers in Proceedings of ICRAAS 2016 are sorted by the research themes chosen. We wish to thank all the Senior Scientists and Researchers for their contributions by way of key-note lectures and research papers. Special thanks are due to the foreign delegates who have undertaken this journey to share a common platform with their Indian counterparts. All this has helped in making this International Conference a resounding success. A special thanks to the support and cheers given by the Chancellor, Vice-Chancellor and Dean (S), St. Peter's Institute of Higher Education and Research, St. Peter's University and the members of ISPA. ICRAAS 2016 also records its grateful thanks to the sponsors, who have offered financial Assistance towards the conduct of this Conference.

Organizing an International Conference of this dimension calls for coordinated teamwork and I as convenor am most grateful to my teachers, researchers and students for this. The success of ICRAAS 2016 is in a large measure due to their hard work and cooperation.

Dr. S. Gunasekaran
Convenor, ICRAAS 2016

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