

## Andhra Pradesh Akademi of Sciences

Established: 1963

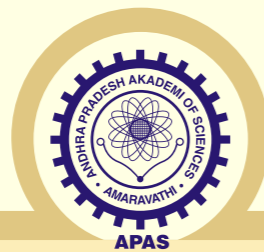
(Registered under the A.P. Societies Registration Act 2001  
vide No. 293 of 2015, dated: 21st September, 2015)

Acharya Nagarjuna University Campus, Guntur, Amaravathi

# Brief Report 2015 - 2017

The Akademi will continue its relentless efforts to spread its S & T activities in all the districts of Andhra Pradesh, in the coming days, with active participation of scientific community and sufficient financial support from Government of A.P. and work towards improving the present status of science education by designing suitable programs, motivating children towards science besides, recreating interest among science teachers in their academic endeavors.

(Prof. K.R.S. Sambasiva Rao)  
Hon. Secretary, APAS



Andhra Pradesh Akademi of Sciences

Type II/2 Quarters  
Acharya Nagarjuna Campus, Guntur, Amaravathi

The "Andhra Pradesh Akademi of Sciences" (APAS), came into existence with the initiative of the great visionary Sri. P.V.G. Raju, the then Education Minister, Govt. of Andhra Pradesh, who mooted the information of a forum for all scientists and researchers in the state. Thus, the "Andhra Pradesh Akademi of Sciences" (APAS) founded in 1963, comprises distinguished Scientists, Engineers, Technologists including Medical fraternity covering the entire spectrum of Science and Technology disciplines.

The aims and objectives of the Akademi are mainly the advancement of Science in Andhra Pradesh by providing a forum for discussing scientific developments, propagating scientific knowledge among the people and publication of books and Journals on Science, besides organizing Annual Science Congress and Children Science meet.

After the state bifurcation, A.P. Akademi of Sciences was relocated in the new state of Andhra Pradesh. Acharya Nagarjuna University has moved a step ahead and came forward to house the new office of the APAS at the new capital city of Amaravathi, by providing basic facilities. I am also fortunate, along with all the Fellows, in associating with APAS, as its first Hon. Secretary of Akademi started functioning from Amaravathi and striving for the best Scientific achievements with the active cooperation of the Scientific community of A.P from May 2015.

Now almost we are nearing the completion of the three year period. we have grown from strength to strength successfully in fulfilling the objectives and has achieved, crossing milestones, in conducting the following activities.

\*Established five Regional centers of APAS at Visakhapatnam, Tirupati, Anantapur, Rajahmundry and Guntur to cover all the Districts of Andhra Pradesh.

## APAS - It's Regional Centers

### Visakhapatnam Regional Center

#### Regional Coordinator

**Prof. P. Rama Rao**

Dept. of Geophysics  
Andhra University, Visakhapatnam

#### Regional Co-Coordinator

**Prof. K. Srinivasa Rao**

Dept. of Statistics  
Andhra University, Visakhapatnam

### Tirupati Regional Center

**Prof. S. Vijayabhaskar Rao**

Dept. of Physics  
Sri Venkateswara University, Tirupati

**Dr. M. Venkata Ratnam**

Dept. of Space  
National Atmospheric Research Laboratory (NARL), Gadanki

### Anantapur Regional center

**Prof. C. Sudhakar**

Dept. of Botany  
Sri Krishnadevaraya University, Anantapur

**Dr. R.R. Venkata Raju**

Dept. of Botany  
Sri Krishnadevaraya University, Anantapur

### Guntur Regional Center

**Prof. N. Veeraiah**

Dept. of Physics  
Acharya Nagarjuna University, Guntur

**Prof. M.V. Basaveswara Rao**

Krishna University  
Dr. MARPGC, Nuzvid

### Rajahmundry Regional Center

**Dr. Y. Srinivasa Rao**

Dept. of Geology  
Adikavi Nannaya University, Rajahmundry

**Prof. S. Srinivasa Kumar**

Dean  
JNTU, Kakinada

\*A. P. Akademi of Sciences has instituted the following Endowments for Promotion of Science in the State.

- |   |  |
|---|--|
| 1. Prof. S. Bhagavantam Endowment Lecture       | 7. Dr. P.V.G. Raju Endowment Lecture         |
| 2. Prof. Y. Nayudamma Endowment Lecture         | 8. Dr. B.V. Raju Endowment Lecture           |
| 3. Sita Mahalakshmi Memorial Lecture            | 9. Prof. G J V J Raju Endowment Lecture      |
| 4. Dr. S. Bala Krishna Endowment Lecture        | 10. Dr. G. Subba Raju Endowment Prize        |
| 5. Dr. C. Sita Devi Endowment Lecture           | 11. Dr. A. P. J. Abdul Kalam Endowment Prize |
| 6. Dr. C. Raja Ram Mohan Reddy Memorial Lecture | 12. Dr. A.V. Rama Rao Endowment Award        |

\* Organization of A.P. Science Congress a flagship event of the scientific community of the state is being held annually on 7<sup>th</sup> November each year coinciding with the birth day celebrations of Nobel Laurets Sir CV Raman, Madam Marie Curie and Padmabhushan Sri N.G. Ranga.

The APAS is particular that the Hon'ble Chief Minister, Govt. of A.P., Inaugurates this state Science Congress, every year analogues to Prime Minister Inaugurates the Indian Science Congress, every year.

Hon'ble C.M has been kind enough in spare his valuable time for the sake of scientific community, with his gracious presence. The scientific community fondly remember sir, your thought provoking, inspiring speech of original ideas towards encouraging the Young talent towards S&T.

The Science congress provides an opportunity to the researchers to interact with various experts in different disciplines of S&T, besides creating a platform for the science teachers and school children to interact with a galaxy of experts in Science and Technology with active participation in an exclusive session of Children Science Congress besides special theme seminars and science exhibition

1<sup>st</sup> A.P. Science Congress - 2015, was conducted at S.V. University, Tirupati, under Focal Theme - "Science for Smart Technologies"

2<sup>nd</sup> A.P. Science Congress - 2016, was conducted at P.B. Sidhartha College, Vijayawada - under Focal Theme "Science & Technology for Health"

3<sup>rd</sup> A.P. Science Congress - 2017, is being organised at Andhra University, Visakhapatnam - under Focal Theme "Green Technologies for Transformation and Sustainable Development".

\* Election of Fellows, Honorary Fellows, Foreign Fellows annually, who are drawn from state Universities, National Laboratories, Industries and Institutions for their significant research contributions.

### Fellows at a Glance

(At the time of Bifurcation)				
	2014	2015	2016	2017
Elected Fellows including Hon. Fellows & Foreign Fellows	120	58	37	35

Elected 250 Fellows / Honorary Fellows / Foreign Fellows, who are drawn from state Universities, National Laboratories, Industries and Institutions for their significant research contributions, during the last three years

# List of Elected Fellows, Hon. Fellows and Foreign Fellows for the year-2017



**Dr. U.B. Desai**  
Director  
IIT, Hyderabad



**Prof. N. Siva Prasad**  
Pro Vice - Chancellor, GITAM University  
Rudramam, Medak



**Prof. Chennupati Jagadish**  
Distinguished Professor & Head, Dept. of Electronic Materials  
Engineering Research, School of Physical Sciences and Engineering  
Australian National University (ANU), Canberra, Australia.



**Dr. V. Balaram**  
Former CSIR - Emeritus Scientist  
Chief Scientist & Head, Geochemistry Division  
CSIR - NGRI, Hyderabad



**Dr. Kuttikuppala Surya Rao**  
Honorary Professor, Dept of Human Genetics  
Andhra University, Visakhapatnam



**Prof. K. Venkateswarlu**  
Dept of Molecular Cell Biology  
ILS1, Medical School, Swansea University  
Singleton Park, Swansea SA2 8PP, U.K



**Dr. Ing. C. Venkata Sai Kiran**  
Sr. Scientist, Karlsruhe Institute of Technology  
Karlsruhe, Germany



**Prof. Y.C. Ratnakaram**  
Dept of Physics  
SV University, Tirupati



**Prof. G.P. Raja Sekhar**  
Dept. of Mathematics  
IIT Kharagpur, West Bengal



**Prof. G.V.S.R. Anjaneyulu**  
Head, Member Academic Senate, Dept. of Statistics  
Acharya Nagarjuna University, Guntur, A.P



**Dr. S. Lakshminarayana**  
Principal Scientist  
CSIR- National Institute of Oceanography  
Visakhapatnam



**Prof. B.M. Mehtre**  
IDRBT  
Hyderabad



**Dr. S. Venkata Mohan**  
Principal Scientist  
CSIR - IICT, Hyderabad



**Dr. S.V.S. Narayana Murthy**  
Scientist / Engineer-"SG", Materials & Metallurgy Group  
Vikram Sarabai Space Centre, Trivendram



**Prof. V.V. Srinivas**  
Dept. of Civil Engineering  
Indian Institute of Science, Bengaluru



**Prof. K. Nagendra Prasad**  
Dept. of Civil engg.,  
SVU College of Engg., SV University, Tirupati



**Dr. K. Madhu Murthy**  
Dean & Professor of Mechanical Engg.,  
National Institute of Technology, Warangal



**Dr. Bhagavatula L.V. Prasad**  
Scientist  
National Chemical Laboratory (CSIR- NCL)  
Pune



**Dr. B.L.A. Prabhavathi Devi**  
Principal Scientist, CSIR-IICT, Centre for Lipid Research  
CSIR- Indian Institute of Chemical Technology, Hyderabad



**Prof. N. Venkata Subba Naidu**  
Dept. of Chemistry  
Sri Venkateswara University, Tirupati



**Prof. Karipeddi Ramakrishna**  
Dept. of Chemistry, Institute of Science  
GITAM University, Visakhapatnam



**Dr. T. Narasinga Rao**  
Scientist G & Associate Director  
International advanced Research Centre for Powder  
Metallurgy and new materials (ARCI), Hyderabad



**Prof. Aluri Jacob Solomon Raju**  
Dept. of Environmental Sciences  
Andhra University, Visakhapatnam



**Dr. Parvatam Giridhar**  
Principal Scientist, Dept. Plant Cell Biotechnology  
CSIR - Central Food Technology Research Institute  
Mysore



**Prof. V. Kalarani**  
Dept. of Biotechnology  
Sri Padmavathi Mahila Visvavidyalayam, Tirupati



**Prof. Sreerama Krupanidhi**  
Head, Dept. of Biotechnology  
Vignana's Foundation for Science Technology &  
Research University, Vadlamudi, Guntur



**Dr. Krishna Rao Appasani**  
AP Secretariat Building 4,  
Room No. 170, Velagapudi



**Dr. Gutha Rama Rao**  
Principal Scientist & Head, Dept. of Crop Physiology  
RRU Crop Physiology, Regional Agricultural Research  
Station (RARS) Lam Guntur, ANGR Agricultural University, AP



**Dr. Giridara Kumar Surabhi**  
Senior Scientist, Regional Plant Resource Centre (RPRC)  
Nayapalli, Bhubaneswar, Odisha



**Prof. Dr. B.C.M. Prasad**  
Dean and HOD, Dept of Neurosurgery  
Sri Venkateswara Institute of Medical Sciences (SVIMS)  
Tirupati, AP



**Prof. Suryadevara Vidyadhara**  
Principal, Pharmaceutical Sciences  
Chebrolu Hanumaiah Institute of Pharma Sciences  
Chandramoulipuram, Chowdavaram, Guntur



**Dr. Amarnath Surath**  
Professor of Orthopaedics  
NRI Medical College, Chinna Kakani, Guntur



**Prof. Nathani Basavaiah**  
Indian Institute of Geomagnetism  
Kalamboli, New Panvel, Navi Mumbai



**Dr. V.S.N. Rao Tatavarti**  
Director, GVP-SIRC, Senior Professor and Dean  
G.V.P. College of Engineering (A), Madhurawada  
Visakhapatnam



**Dr. P. Kunhi Krishnan**  
Director  
SDSC, SHAR, Sriharikota

\* The Akademi also admitted about 147 drawn from universities and research organisations as Associate Fellows of the Akademi to encourage researchers and contribute to the R & D in the state of A.P.

	2015	2016	2017
Associate Fellows Admitted	56	52	39

### List of Associate Fellows to be admitted for the year 2017

**Dr. Seelam Rajyalakshmi**

Dept. of Physics  
Adikavi Nannaya University, Rajamahendravaram

**Dr. K. Ramachandra Rao**

Dept. of Physics, Govt (A) College  
Rajahmundry

**Dr. Tamma Eswaral**

Dept of Mathematics, KL University  
Guntur.

**Dr. V. Sugunamma**

Dept of Mathematics, S.V. University  
Tirupati

**Dr. Y.V.K. Ravi Kumar**

WILP Division, BITS-Pilani  
Hyderabad

**Dr. Sudhanshu Aggarwal**

Indian National Science Academy  
New Delhi

**Dr. T.V. Pradeep Kumar**

Dept. of Mathematics, ANU College of Engg &  
Technology, Guntur

**Dr. D. Lalitha Bhaskari**

Dept. Of CS & SE, AU college of Engineering  
for Women, Visakhapatnam

**Dr. M. Sairama Krishna**

Dept. of Materials Science & Metallurgical  
Engineering, IIT Hyderabad

**Dr. Ratna Sunil Buradagunta**

Dept. of Mechanical Engineering  
IIIT Nuzvid

**Dr. K. Venkata Girish**

School of Engineering Sciences & Technology  
UoH, Hyderabad

**Dr. S. Nagakishore Bhavanam**

Dept. of ECE, ANUCET  
Acharya Nagarjuna University, Guntur

**Dr. K. Bala Murali Krishna**

Dept. of Chemistry  
ANU, Nagar

**Dr. Seella Ramanaiah**

Dept. of Chemistry, Rayalaseema University  
Kurnool

**Dr. P. Dinesh Sankar Reddy**

Dept. of Chemical engineering, JNTUCE  
Anantapuramu

**Dr. Sharmila Nurbhasha**

ANUCET, Acharya Nagarjuna University  
Guntur

**Dr. Ramesh Laxminarayana Gardas**

Dept. of Chemistry, IIT Madras  
Chennai

**Dr. Rambabu Dandela**

Dept. of Organic Chemistry  
CSIR-NCL, Pune

**Dr. Puli Chandra Obul Reddy**

Dept of Botany, Yogi Vemana University  
Kadapa

**Dr. A. Chandra Sekhar**

Dept of Biotechnology, Yogi Vemana University  
Kadapa

**Dr. V. Lakshmi Kalpana**

Dept. of Human Genetics, Andhra University  
Visakhapatnam .

**Dr. B. Kishori**

Dept of Biotechnology  
Sri Padmavathi Mahila Visvavidyalayam, Tirupati

**Dr. G. Venkteswara Reddy**

Department of Animal Biology  
UoH, Hyderabad

**Dr. P. Udaya Sri**

Dept. of Biotechnology  
Acharya Nagarjuna University, Guntur

**Dr. G. Venkata Siva Rama Krishna**

Dept. of Biotechnology, KL University  
Guntur

**Dr. R. Naga Amrutha**

Dept. of Medicinal Chemistry and Biotechnology  
IICT, Hyderabad

**Dr. Aparanji Poosarla**

Dept. of Biochemistry, Andhra University  
Visakhapatnam

**Dr. Pichili Vijaya Bhaskar Reddy**

Dept. of Life Science & Bio-Informatics  
Assam University

**Dr. S.B. Sainath**

Dept. of Biotechnology  
Vikrama Simhapuri University, Nellore

**Dr. P.V. Krishna**

Dept. of Zoology & Aquaculture  
Acharya Nagarjuna University, Guntur

**Prof. Ajay Babu Chirumella**

Dept. of Pharmaceutic  
M.A.M College of Pharmacy, Narasaraopeta

**Dr. Mohammad Yunoos**

Bapatla College of Pharmacy  
Bapatla

**Dr. A. Shanta Kumari**

Nirmala College of Pharmacy, Atmakur  
Mangalagiri

**Dr. Prakash Katakam**

Indira College of Pharmacy, Vishnupuri  
Nanded

**Dr. SK. Abdul Rahaman**

Nirmala College of Pharmacy, Atmakur  
Mangalagiri

**Dr. V. Sai Kishore**

Bapla College of Pharmacy  
Bapatla

**Dr. P. Padmavathi Devi**

Dept. of Geophysics, Andhra University  
Visakhapatnam

**Prof. Ch. Rama Krishna**

Dept. of Environmental Studies  
GITAM University, Visakhapatnam

**Tulasiram Sudarsanam**

Indian Institute of Geomagnetism  
Navi Mumbai

\* Presentation of Young Scientist Awards to the researchers, who are below 35 years of age for their significant contributions of different disciplines of S & T.

	2015	2016	2017
Young Scientists Awarded	7	8	9

### List of Young Scientist Awardees (below 35 years of age) for the year 2017



**Dr. Krishna Kiran Vamsi Dasu**

Dept of Mathematics and Computer Science  
Sri Sathya Sai Institute of Higher Learning, Puttaparthi



**Dr. Mudavath Chennakesavulu Naik**

Dept. of Botany, Sri Krishnadevaraya University  
Anantapuramu



**Dr. Gandikota Ramu**

Dept. of CSE  
Institute of Aeronautical Engineering, Hyderabad



**Dr. Shabuddin Shaik**

Dept. of Zoology & Aquaculture  
Acharya Nagarjuna University, Guntur



**Dr. Sai Prathima Parvathaneni**

IICT, Hyderabad



**G. Narasimha Rao**

Dept. of Geo-Engineering,  
Andhra University, Visakhapatnam



**Dr. Pradeep Kumar Brahman**

Dept of Chemistry  
KL University, Guntur



**Dr. Kiranmai Samudrala**

National Institute of Oceanography  
Goa



**Dr. Mazahar Moin**

Dept. of Plant Sciences  
University of Hyderabad, Hyderabad



**Dr. P. Pavan Chaitanya**

National Atmospheric Research Laboratory  
Gadanki.