



NABS *News Letter*

National Academy of Biological Sciences

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Former Chairman, NBA, GOI, Chennai

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From the Desk of President...

Dear NABSians,

Greetings and welcome to the General Body Meeting cum the National Seminar on Biodiversity being held at Tiruchengode.

I share with all of you the mixed feelings we all have in the 10th year of the start of the Academy by Prof. S.Kannaiyan. We dedicate the entire achievements to the great soul. Prof. Kannaiyan wanted the Academy to be different in that it targets students, young researchers and women scientists. He was also particular that our interactive workshops and seminars are held with least pomp and show at Tier II cities. The Academy started with about 18 members has grown to a well known Academy with over 580 members and 98 Fellows. During this year, a new award, namely, Life Time Achievement Award (LTAA) was instituted. The first LTAA Award is being presented to Prof. R.R. Hanchinal, Chairperson, Protection of Plant Varieties and Farmers' Rights Authority (PPV&FRA). In this special issue, we have indicated the milestones which we crossed in these 10 years. It is not definitely a Rosy Path. Prof. Kannaiyan's tireless efforts and his work towards the Academy till he breathed his last is history and he remains a legion in that account. We salute you Sir, for your great service.

During the last two years, we have taken all efforts to fulfill the dream of the Founder President. Awards for the best papers, best researchers (young) and coveted awards of the Academy such as Prof. SK Memorial Award and LTAA have been put in place.

I thank all the NABSians for their unstinted support. I place on record my gratitude to the Secretary, Prof. T. Marimuthu and the Treasurer Prof. T. L. Baskaran for their tireless efforts in making things happen. I thank the Technical Review Committee (TRC) which acted as screening cum selection committee for the Awards and Fellowships. They burnt midnight oil to go through all the applications and did a tremendous job. I have no words to thank them.

Hoping to meet all of you at Tiruchengode.

(V. A. Parthasarathy)
President, NABS

2. From Editor's Desk

Greetings to all at NABS.

I am glad to note that NABS is on the verge of completing 10 years of yeoman service to science and the society. From being a baby nurtured and tutored by our founder President Prof. Dr. S. Kannaiyan and the present Secretary Dr. T. Marimuthu, it has been an exciting journey of self discovery and unprecedented growth for the academy with immense contributions from the global scientific community. Though we are still a fledgling academy and the challenges from bigger academies notwithstanding, we have irrevocably proven that we have the collective strength to draw attention to the systemic challenges faced by the global scientific community. Now, as we approach the second decade of our existence, we must garner all our resources and acumen to provide a specific perspective to the state of present and future science. A mighty challenge today is to confront the world that has never ceased to expand in all directions. While doing so, the global world which has become an entity in its own right, hurls insurmountable challenges that need to be resolved with collective effort. Conversely, NABS with its strong scientific knowledge base and nerves of steel will be able to respond effectively to these challenges and opportunities. We at the academy need to work for the furtherance of science and technologies that are relevant and of quality by developing critical and creative thinking by participating as well as conducting scientific exchanges that would help encourage changes that can put the world on a more sustainable path and stimulate overall development. Besides meetings, workshops and symposia, this newsletter has also been serving as an effective medium to exchange ideas as well as publish new and exciting findings. On behalf of the academy, I sincerely thank all the members who have contributed in making the newsletter an effective medium for communicating their research findings, opinions and views. To make it more effective I urge all the members to push the shorter version of their new findings in this newsletter before communication of the full length paper to research journals.

In the coming decade, we at NABS are optimistic that the academy will make critical forays in a sustained and coordinated way for ensuring a world that is scientifically literate and self sustaining by learning to live together, learning to be, learning to do and learning to know.

(M. Anandaraj)

3. A decade of NABS - reminiscence

The year 2014 sees a new milestone in the annals of NABS as it is a decade old baby. The humble feeling is that we are fulfilling the dreams of the Founder President who conceived the idea of forming 'National Academy of Biological Sciences' which was founded on 31 December, 2004 by Prof. Dr. S. Kannaiyan, the then Chairman, National Biodiversity Authority, Ministry of Environment and Forests, Government of India., Chennai, Tamil Nadu, with EC members and Headquarter at Chennai. The Executive Council constituted at the time of registration constituted President - Prof. Dr. S. Kannaiyan (Founder President), Vice President-Prof. N. Anand (Founder Vice-President) Secretary-Dr. S. S. Gnanamanickam (Founder Secretary) and Treasurer-Dr. T. L. Baskaran (Founder Treasurer). The founder Executive Council members were Prof. V. Sundararajan, Dr. K. Balaraman and Prof. T. Subramoniam.

The Academy was registered as "National Academy of Biological Sciences" under the Tamil Nadu Societies registration Act 1975 (TN Act 27 of 1975) on 10th March, 2005 at Chennai South, Saidapet, Chennai- 600 015 with Certificate of Registration No. 110 / 2005 with a vision to provide a common platform for the biologists to interact with each other for mutual benefit and to further the knowledge on areas of biological sciences.

In the foundation year 18 members were enrolled as life members including one member from USA. One could visualize the herculean task meted out by the Secretary to enroll more and more members to strengthen the activities of the Academy. Prof. M. S. Swaminathan was the first to be conferred with Honorary Fellow of the Academy. The function was organized at the Guindy campus of University of Madras, Chennai.

Milestones of NABS

2004

- National Academy of Biological Sciences founded by Prof. S. Kannaiyan on 31st December, 2004 became one of the full fledged scientific academies in the country.
- Eighteen life members were enrolled during the year including one member from USA.

2005

- Dr. S. Gnanamanickam, Secretary was authorized to register the Academy under Society's Act.
- National Academy of Biological Sciences was registered under TN Societies Registration Act 1975 on 10th March, 2005 having Head Quarters at Chennai.
- Ninety five members enrolled themselves as life members of the Academy.
- Prof. M. S. Swaminathan was the first to be nominated for conferring Honorary Fellow of NABS.
- Thirteen other members were also conferred with Fellow of NABS.

2007

- Election of nineteen members for election year 2007 was approved during the EC meeting held on 4th July 2008 at Loyola College, Chennai.

2008

5th Executive Council Meeting

- The meeting was held on 4th July 2008 at Loyola College, Chennai. Dr. D. Sudarsanam, EC Member and Professor of Loyola College arranged the meeting.

Decisions

- Every year the election of members for fellowship will be made.
- The election of 19 members for the election year 2007 ratified.
- A perfect scoring system need to be developed to evaluate the applications received for fellowship and other awards.
- Another category of Fellowship- Associate Fellowship was introduced. Members who are 40 years of age and below are eligible to apply.
- EC meeting may be organized in various zones of the country to have active participation of all members and make NABS more visible.
- Decided to develop a model website which could be finally launched as NABS website.
- The format of NABS News letter to be standardized and released at regular intervals. Dr. V. A. Parthasarathy will take initiatives.
- The life membership fee is fixed as Rs. 1000/- (onetime payment)

6th Executive Council Meeting

- The meeting was held on 29 September 2008 at Silver Jubilee Hall of Indian Institute of Spices Research, Calicut, Kerala. Prof. S. Kannaiyan, President, NABS presided.

Decisions

- Decided to introduce Associate Fellowship for which a committee under the chairmanship of Dr. V. A. Parthasarathy with Dr. K. Muthuchelian and Dr. Rajesh Singh as members was constituted to work out the modalities of selection. Dr. T. Marimuthu, Secretary, NABS will be the member-secretary.
- NABS Website: www.nabsindia.org was launched.
- NABS News letter: The first News Letter is to be released.
- Corporate Membership: A new category *viz.*, Corporate Membership was introduced.

- Industries / Institutions engaged in product development related to any biological output directly or products beneficial to biological systems can be admitted in two categories with a membership fees of Rs. 10, 000 / Rs. 5, 000/ as onetime payment based on the size of output.
- Honorary Membership of NABS: NAAS Fellows or any biological scientist of high repute may be considered for admitting as a Honorary Member of NABS without paying the prescribed fee.
- Starting a Journal: It was decided to start a journal by name "Biological Sciences". A committee under the chairmanship of Dr. V. A. Parthasarathy with Dr. M. Anandaraj and Dr. T. Marimuthu as members was constituted to work out the modalities.
- Introduction of new Awards: New awards will be introduced in the name of eminent scientists of the country to recognize their contributions to biological sciences.
- NABS Academic / Scientific Leadership Award to be introduced.
- NABS-Woman Scientist Award to be introduced.
- Organizing Interactive Workshops on selected themes at regular intervals.
- Organizing seminar- thematic seminar utilizing the visits of eminent scientists to Chennai could be organized.
- Organizing critical environmental campaigns for the benefit of school and college students.
- Science popularization awareness meetings for the benefit of school and college students.
- Publication of technical bulletins by NABS on specific technology identified by EC.
- Seeking funds from ICAR/ DST/ DBT/ MoE as matching grant.
- The present LOGO of NABS has been revised and the same is accepted and to be registered.

First Interactive Workshop

- The workshop with the theme "Microbial interactions for food security" was organized on 30 September 2008 at Indian Institute of Spices Research, Calicut, Kerala. Prof. S. Kannaiyan inaugurated the workshop. Six invited papers were presented and discussed during the workshop.

Third Annual Meeting

- For the Election year 2007 nineteen members were conferred with Fellow of NABS during the Annual meeting held on 30 September 2008 at Indian Institute of Spices Research, Calicut, Kerala. President of NABS presented to Fellowship to the elected members.

Second Interactive Workshop

- The workshop with the theme "Tuber Crops in Food Security" was organized on 24 November 2008 at Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala. Prof. S. Kannaiyan inaugurated the workshop. Eight invited papers were presented and discussed.
- Dr. S. Edison, Vice-President, NABS & Director, CPCRI, Thiruvananthapuram was felicitated during the workshop on his superannuation.
- Fifty three members were enrolled as life members.

2009

7th Executive Council Meeting

- The meeting was organized on 30 July 2009 at Loyola College, Chennai. Prof. S. Kannaiyan, President, NABS presided.

Decisions

- EC placed on record its appreciation for the achievements of its members:
 - a. Dr. P. Rajendran - awarded with TANSa Award, Tamil Nadu Government.

- b. Dr. E. M. Patil : Awarded with NAB's Shri. Shalithi Award 2009 for his contribution to Horticulture by NAB, New Delhi; Dr. K. Ramiah Memorial award- 2009 for significant contribution to plant improvement conferred by NAAS, New Delhi.
 - c. Dr. A. B. Patil : Assumed as Registrar, University of Horticultural Sciences, Sector No. 60, Navanagar, Bangalore 587 102, Karnataka.
- Publications made by NABSians were informed to members and will be released in the Annual meeting, if copies are made available.
 - a. MR Khan : Plant nematodes- Methodology, Morphology, Systematics, Biology and Ecology” by MR Khan, Dept. of Plant Protection, Aligarh Muslim University, India (Science Publishers, New Hampshire) [ISBN: 81 2(4 1731-3 & 978-81-204-1731-1].
 - b. S. Kannaiyan (Ed). 2009. “Biodiversity Hot spots Access and Benefit sharing” Narosa Publishing House, New Delhi, p.322.
 - c. Nakkeeran, S., T. Marimuthu and A. S. Krishnamoorthy.2009. Exploring the biogeographical diversity of *Typhoderma* for Human Welfare. In: (Ed.) S. Kannaiyan Biodiversity Hot spots Access and Benefit sharing. pp:183-210.
 - d. Marimuthu, T., A. S. Krishna Moorthy and S. Nakkeeran.2009. Biodiversity of Oyster, Paddy straw and Milky mushrooms. In: (Ed.) S. Kannaiyan Biodiversity Hot spots Access and Benefit sharing. pp:165-181.

Third Interactive Workshop

- Prof. S. Kannaiyan, President, NABS inaugurated the interactive workshop with the theme "Biology in Human Welfare" organized on 30 July 2009 at Loyola College, Chennai.
- Four invited speakers presented the papers which were discussed.

Fourth Annual Meeting

- Prof. S. Kannaiyan President, NABS presided the Annual meeting held on 30 July 2009 at Loyola College, Chennai. Eighteen members elected for the year 2008 were conferred with Fellowship. Three members received Fellowship *in absentia*. Prof. S. Kannaiyan presented the Fellowship.
- Fifty two members were enrolled as life members.

2010

8th Executive Council Meeting

- The meeting was organized on 23 October 2010 at Hotel Temple Tower, Thanjavur. After the E C meeting Dr. K. Muthuchelian, Fellow of NABS was felicitated in view of his assumption as Vice-Chancellor, Periyar University, Salem, Tamil Nadu.

Decisions

- President reinstated that all EC members should strive to enroll more Life Members and Corporate Life Members. The efforts of Dr. M. Anandaraj, EC member to enroll more Life Members was appreciated by President.
- For the election year 2009 eight members were nominated as Fellows of NABS including two Honorary Fellows; one as associate Fellow; two Corporate Life members; one Publisher for "Best Scientific Publisher Award". However, the Annual Meeting was not conducted in 2010.
- Eighty six members were enrolled as life members.

2011

9th Executive Council Meeting

- The meeting was held on 12 March 2011 at PRIST University, East Campus, Thanjavur, Tamil Nadu under the chairmanship of Prof. S. Kannaiyan. The Following important Decisions were made.

Decisions

- Decided to honor Eminent Scientists; confer Honorary Fellowship on Eminent Scientists.
- Dr. R. S. Paroda and Dr. P. L. Gautam were nominated for Honorary Fellowship.
- Regular publication of NABS News letter shall be made.
- Life Membership Fee revised from Rs. 1000/- to Rs. 1500/- w.e.f. 5th January, 2011 was ratified.
- Registration and Processing Fee for Fellowship / NABS Best Woman Scientist Award as Rs.3000/- & Rs.1000/- respectively will be collected from applicants.
- Evaluation procedure for Fellowship need to be modified
- "Net Working of Biotechnologists' groups to be organized.

Fourth Interactive Workshop

- "Biotechnological Applications for Sustainable Development" was organized at the East Campus of PRIST University, Thanjavur in collaboration with PRIST University on 12 & 13 March, 2011.

Inaugural function

- Dr. T. Marimuthu, Secretary, NABS delivered welcome address.
- Prof. S. Kannaiyan, President of NABS presided over the function.
- Prof. P. Murugesan, Hon'ble Chancellor of PRIST University, Thanjavur inaugurated the workshop.
- Dr. N. Ethirajulu, Vice-Chancellor, PRIST University gave an overview of the University.
- Dr. V. A. Parhasarathy, Editor, NABS Newsletter briefed about the Interactive Workshop and narrated developments of the Academy.

Release of Publications

- Prof. P. Murugesan, Hon'ble Chancellor, PRIST University released the books authored by members / Fellows of NABS during inaugural function.
 - a. Kannaiyan, S. (Ed.). 2009. Access and Benefit Sharing. Narasa Publishing House, New Delhi.
 - b. Kannaiyan, S. (Ed.). 2010. Soil Biotechnology, Vol-1. Associated Publishing Company, New Delhi.
 - c. Kannaiyan, S. (Ed.). 2010. Soil Biotechnology, Vol-2. Associated Publishing Company, New Delhi.
 - d. Kannaiyan, S., V. A. Parthasarathy and D. Prasath. 2009. Intellectual Property Rights, Associated Publishing Company, New Delhi.
 - e. Muthuchelian, K. and S. Kannaiyan. 2010. Biotechnology and Biosafety. Associated Publishing Company, New Delhi.
- Prof. S. Kannaiyan, President, NABS released the following books.
 - a. NABS-Year book-2010
 - b. Abstract of NABS-4th Interactive Workshop on "Biotechnological Applications for Sustainable Development".

Technical sessions

- Two technical sessions were conducted in which nine invited papers were presented. Twenty six posters were also presented by members of NABS and students from various institutions.

Fifth Annual Meeting

- The annual meeting was organized on 13 March, 2011 by 11.30 am at PRIST University which was presided by Prof. S. Kannaiyan.

Fellowships

- Fellowship award ceremony of 2009 and 2010 were combined and Fellowship was presented by the

President. For 2009: three members received *in person*; 4 *in absentia*; For 2010: 6 members received *in person* and one *in absentia*.

Associate Fellowship

- Associate Fellowship award ceremony of 2009 and 2010 were combined and Associate Fellowship was presented by the President. For 2009: one member received *in absentia*; For 2010: 2 members received *in person*.

Honorary Fellow

- Two members- Dr. R. S. Paroda and Dr. P. L. Gautam were presented with Honorary Fellowship *in absentia*.

Corporate Life Member

- PRIST University, Thanjavur & SKYWIN Bitech, Kumbakonam were presented with Corporate Life Member.

Best Scientific Publisher Award

- Shri S. K. Dutta, Associated Publishing Company, New Delhi was presented with this award.

Plenary and Valedictory function

- Prof. S. Kannaiyan presided. Best Posters under General (2), Medicinal Plants (2), Pests and Diseases (1), and Microbiology (1) sessions were presented with "Best Poster Presentation Award" by President.

10th Executive Council Meeting

- The meeting was held on 13 November, 2011 at Shanthi Ashram, Coimbatore to condole the sudden demise of Prof. S. Kannaiyan, Founder President, NABS on 20 October, 2011 and to take decisions on the next President.

Decisions

- Dr. V. A. Parthasarathy, Editor, NABS News Letter was unanimously nominated as President (w.e.f. 13 November 2011).
- *In lieu* of Dr. V.A. Parthasarathy, being nominated as President, Dr. M. Anandaraj was nominated as Editor, NABS-News Letter (w.e.f. 13 November 2011).
- *In lieu* of Dr. S. Edison, Vic-President, NABS expressed his willingness to relinquish the post, Dr. D. J. Bagyaraj was unanimously nominated as Vice-President (w.e.f. 13 November 2011).
- "Prof. S. Kannaiyan Memorial Award" was instituted with immediate effect in loving memory of Founder President. The First Award will be presented during 2012. Nomination to this award shall be made by EC members.
- Ninety one members were enrolled as life members.

2012

12th Executive Council Meeting

- The EC meeting was held on 1 December, 2012 at Shanthi Ashram, Coimbatore. Dr. V. A. Parthasarathy Presided.

Important decisions

- New Award *viz.*, 'NABS Best Research Paper Award' introduced. Decided to create of "Life Time Achievement Award" and "NABS Young Scientist Award".
- Dr. Kirti Singh was nominated for Prof. S. Kannaiyan Memorial Award for 2012 with additional guidelines for selection criteria.
- Decided to conduct a national seminar in collaboration with Bharathidasan University, Tiruchirappalli.

Fifth Interactive Workshop

- "Prospects on Medicinal Plants in Promoting Wellness" was organized in collaboration with World Noni Research Foundation, Chennai on 14 & 15 May, 2012 at University of Madras, Guindy campus, Chennai.

Inaugural function

- Dr. V. A. Parthasarathy, President, NABS presided.

- Padma Bhushan Dr. R. S. Paroda unveiled the portrait of Founder President, Prof. S. Kannaiyan and the delegates and dignitaries paid homage by observing two minutes silence.
- Dr. Kirti Singh inaugurated the Interactive Workshop, released the Abstract and NABS News letter vol. 3.
- Dr. Kirti Singh conferred **Prof. S. Kannaiyan Memorial Award** on Padma Bhushan Dr. R. S. Paroda, Chairman, TAAS & Former Secretary, DARE & Director General, ICAR, New Delhi.

Honorary Fellow of NABS conferred on:

- Dr. S. Ayyappan, Director General, Indian Council of Agricultural Research & Secretary, Department of Agricultural Research and Education, GOI, New Delhi (*in absentia*)
- Dr. H.P Singh, Deputy Director General (Horticulture), ICAR, New Delhi (*in person*).

Corporate Fellow

- Prof. P. I. Peter, Chairman, Noni BioTech, Chennai was conferred with Corporate Fellow of NABS. He also delivered Keynote address.

Technical sessions

- Invited papers were presented under technical sessions-Bioprospecting (3), Integrated Health Management (9) and Crop Production and Management (4).

Sixth Annual Meeting

- Dr. V. A. Parthasaraty, President, NABS presided and presented the awards and Fellowships for the Election year 2011 during the Annual meeting held on 15 May, 2012 at University of Madras, Guindy campus, Chennai.

Fellow of NABS

- Five members were conferred fellowship *in person* and one *in absentia*.

NABS-Best Woman Scientist Award

- Two woman members were awarded with NABS - "Best Women Scientist Award".

2013

13th Executive Council Meeting

- The EC meeting was held on 20 July, 2013 at Bharathidasan University, Tiruchirappalli. Dr. V. A. Parthasarathy Presided.

Decisions

- New awards *viz.*, "NABS-Life Time Achievement Award" & "NABS-Young Scientist Award" were instituted which will take effect from 2014.
- Dr. P. Vivekanandan, Former Dean (TNAU) & Dr. N. Mathivanan, University of Madras, Chennai were nominated as EC members.

National Seminar (6th in its series of Interactive Workshop / Seminar)

- "Microbes and Human Welfare" was organized in collaboration with Department of Microbiology, Bharathidasan University, Tiruchirappalli, Tamil Nadu for two days on 20 & 21 July, 2013.

Inaugural function

- Dr. E. Ram Ganesh, Registrar i/c inaugurated the seminar and delivered inaugural address
- Dr. V. A. Parthasarathy, President, NABS presided
- Dr. K. Ramasamy, Vice-Chancellor, Tamil Nadu Agricultural University, Coimbatore delivered 'Key Note' address.
- Dr. P. Gunasekaran, Vice-Chancellor, Thiruvalluvar University, Vellore, Tamil Nadu released NABS Newsletter and books written by Fellows of NABS.
- Prof. P. I. Peter, Chairman, Noni BioTech, Chennai conferred NABS- Best Research Paper Award on Dr. D. Prasath.

- Dr. K. Muthuchelian, Vice-Chancellor, Periyar University, Salem, Tamil Nadu conferred "Prof. S. Kannaiyan Memorial Award" for 2013 on Dr. Kirti Singh, Chairperson, World Noni Research Foundation & Former Vice Chancellor and Chairman, Agricultural Scientists Recruitment Board, New Delhi
- Dr. Kirti Singh delivered "Prof. S. Kannaiyan Memorial Oration 'Noni (*Morinda citrifolia* L.)- A Treasure for Wellness"

Technical Sessions

- Four technical sessions were held and twenty oral presentations were made. Each session preceded with a lead paper. Seventeen papers were presented under Poster Session.

Plenary session and Valedictory function

- Prof. G. Subramanian, Founder Director, National Facility for Marine Cyanobacteria and Former Head, Department of Microbiology, Bharathidasan University was the Chief Guest. He presented Best Oral and Poster Presentation awards and delivered valedictory address.

Annual Meeting of NABS

- Annual meeting was held on 21 July, 2013 and Dr. V. A. Parthasarathy presided. Fellowships and awards were presented by the President, NABS. Details are :

Fellowship & Awards

- For the Election year 2012- Fellowship and awards were conferred during the inaugural function / Annual meeting held on 20 & 21 July 2013 respectively at Bharathidasan University, Tiruchirappalli, Tamil Nadu.
- **Fellow:** Thirteen members were conferred with Fellow of NABS
- **Associate Fellow:** one member was conferred with Associate Fellow
- **NABS-Best Research Paper Award:** One member was conferred with NABS-Best Research Paper Award
- Fifty five members were enrolled as life members.

2014

14th Executive Council Meeting

- The EC meeting was held on 26 January, 2014 at CAS Botany, University of Madras.

Decisions

- For the Election year 2013 nine members were elected for Fellowship; one member for 'NABS-Best Woman Scientist Award'; one member for 'NABS-Young Scientist Award' and one each for 'Prof. T. S. Sadasivan Memorial NABS-Best Research Paper Award' and 'Prof. G. Rangawami Memorial NABS-Best Research Paper Award' during the Annual meeting held on 20 July, 2014 at KS Rangasamy College of Technology, Tiruchengode, Tamil Nadu.
- Prof. P. I. Peter was nominated for 'Prof. S. Kannaiyan Memorial Award' for 2014.
- Decision to organize NABS-National seminar on "Biodiversity Conservation- Status, Future and Way Forward" in collaboration with Department of Biotechnology, KS Rangasamy College of Technology, Tiruchengode, Namakkal District of Tamil Nadu for two days from 19-20 July, 2014 was ratified.
- NABS - Best Research Paper Award under each recognized subject was named after eminent scientists of the country as detailed below.

Basic Sciences	Prof. T. S. Sadasivan Memorial NABS - Best Research Paper Award
Agricultural Sciences & Forestry	Prof. G. Rangawami Memorial NABS - Best Research Paper Award
Veterinary & Fisheries	Dr. C. M. Singh Memorial NABS Best - Research Paper Award
Food and Nutrition	Dr. V. Subrahmanyam Memorial NABS - Best Research Paper Award

- Developing policy papers: Policy papers are to be developed after brain storming which will help the Government to take up particular issue(s).

Some of the suggested topics:

- b. Genetically Modified Organisms (GMOs)
- c. Bio-consortium Net work
- d. Biodiversity and Conservation of Medicinal Plants
- NABS-Best Scientist Award: Yet another award to recognize young biologists was introduced. One award under each recognized subjects which are named after eminent scientists of the country will be presented to eligible member.

Basic Sciences	Dr. G. Venkataraman Memorial NABS-Best Scientist Award
Agricultural Sciences & Forestry	Dr. B. P. Pal Memorial NABS -Best Scientist Award
Veterinary & Fisheries	Dr. V. S. Alwar Memorial NABS-Best Scientist Award
Food and Nutrition	Dr. Smt. Rajammal P. Devadas Memorial NABS-Best Scientist Award

- "Life Time Achievement Award" is instituted. The first award for the year 2013 will be presented during inaugural function of NABS National Seminar-2014 scheduled on 19 July, 2014. The selection is based on the nominations received from Fellows and members of Executive Council of NABS. In case of more nominations received the selection will be done by a separate committee nominated by President, NABS.
- Prof. R. R. Hanchinal, Chairperson, Protection of Plant Varieties and Farmers' Rights Authority, Ministry of Agriculture, Government of India, New Delhi and Former Vice-Chancellor, University of Agricultural Sciences, Dharwad, Karnataka was nominated for the award by a selection committee as there were eight nominations.
- Opening a separate SB account at State Bank of India to maintain the receipts of Corpus Fund collected for 'Prof. S. Kannaiyan Memorial Award' as proposed by the Secretary, National Academy of Biological Sciences. The account may be named as '*NABS- Prof. S. K. Memorial Award Corpus Fund*'. The fixed deposit will also be transferred to this account.

National Seminar (7th in its series)

- National Seminar on 'Biodiversity Conservation: Status, Future and Way Forward' was organized in collaboration with KS Rangasamy College of Technology and Protection of Plant Varieties and Farmers' Rights Authority, Ministry of Agriculture, Government of India for two days from 19 to 20 July, 2014 at Silver Jubilee Auditorium, KSRCT, Tiruchengode.

Inaugural function

- Dr. K Thyagarajah, Principal, KS Rangasamy College of Technology welcomed.
- Dr. V. A. Parthasarathy, President of NABS presided.
- Dr. D. J. Bagyaraj, Vice-President, NABS and Dr. M. Anandaraj gave overview of NABS and NABS News letter respectively.
- Dr. T. Marimuthu, Secretary, NABS gave an overview of the seminar.
- Prof. Dr. H. Devaraj, Vice-Chairman, University Grants Commission inaugurated the seminar.
- Prof. Dr. R. R. Hanchinal, Chairperson, Protection of Plant Varieties and Farmers' Rights Authority, Ministry of Agriculture, Government of India delivered key note address and released the Proceedings of the seminar.
- Shri R. Srinivasan, Secretary, KSR Educational Institutions offered felicitation.
- Dr. K. Muthuchelian, Former Vice-Chancellor, Periyar University, Salem released NABS News letter - special issue and offered felicitation.

Presentation of awards

- Lion KS Rangasamy, Funder and Chairman, KSR Educational Institutions conferred 'Prof. S. Kannaiyan Memorial Award' on Prof. P. I. Peter, Chairman, Noni BioTech, Chennai.
- Dr. Kirti Singh, Chairperson, World Noni Research Foundation, Chennai conferred 'NABS Life Time Achievement Award' on Prof. Dr. R. R. Hanchinal, Chairperson, Protection of Plant Varieties and Farmers' Rights Authority, Ministry of Agriculture, Government of India.
- Prof. P. I. Peter delivered 'Prof. S. Kannaiyan Memorial Oration' on 'Wellness and Noni (*Morinda citrifolia* L.).
- Dr. P. Ponmurugan proposed vote of thanks

Technical Session

- The National seminar was conducted on 19 & 20 July, 2014 at KSRCT, Tiruchengode in four technical sessions viz., (i) Biodiversity hot spots and conservation: Indian legislations, policies, directions and custodians of conservation, (ii) Biodiversity of Natural Resources-Floral and faunal diversity, (iii) Biodiversity of Natural Resources-Microbial diversity and (iv) Biotechnological Tools for Analysis and Conservation of Biodiversity. Separate Poster session was organized.

Valedictory function

- Valedictory function was held on 20 July, 2014. Dr. V. A. Parthasarathy, President, NABS presided.
- Prof. Dr. K. Ramasamy, Vice-Chancellor, Tamil Nadu Agricultural University, Coimbatore was the chief guest and delivered valedictory address and presented 'Best Oral and Poster Presentation Awards'.
- Dr. T. L. Baskaran, Treasurer, NABS welcomed the delegates and gathering.
- Dr. S. Anitha, Organizing Secretary, NABS National Seminar presented the two day proceedings and recommendations.
- Shri R. Srinivasan, Secretary, KSR Educational Institutions offered felicitation.
- Dr. T. Marimuthu, Secretary, NABS proposed vote of thanks.

Annual General Body Meeting

- The Annual General Body Meeting was organized under the Chairmanship of Dr. V. A. Parthasarathy, President, NABS on 20 July, 2014 at KSRCT, Tiruchengode.

Presentation of Fellowship and awards

- The fellowships and awards were presented to members by Dr. V. A. Parthasarathy, President, NABS.
- Fellowship: For the election year 2013, nine members were conferred with Fellowship and one with Honorary fellow.
- Awards: For the election year 2013 one member was conferred with 'NABS-Best Woman Scientist Award'; one member with 'NABS Young Scientist Award'; one each with 'Prof. T. S. Sadasivan Memorial NABS- Best Research Paper Award' and 'Prof. G. Rangaswami Memorial NABS-Best Research Paper Award'.

Membership of NABS

i. Life Member

Any scientist in the recognized areas of biological sciences with Ph. D. is eligible to become a Life Member of NABS by paying one time registration fee of Rs. 2500/- (Rupees Two thousand five hundred only). As on date more than 540 members are on roll.

ii. Provisional Life Member

A student of biological science who had registered for his Ph. D. programme is eligible to become a Provisional Life Member. He / she should produce evidence from the Head of the Department to the effect that he is a registered candidate for Ph.D. programme. The membership fee is Rs. 2500/- (Rupees two thousand only). However, a Provisional Life Member may not have certain privileges as that of a Life Member. On completion of Ph.D programme he/she will become a life member w.e.f the date of receipt of Ph.D degree.

iii. Corporate Life Member

A corporate company which deals with bioproducts or allied products may become a Corporate Life Member by paying Rs. 5,000/- (Rupees five thousands only) which is to be approved by Executive Council of NABS.

iv. Corporate Fellow

A corporate Head or Chief Executive who deals with bioproducts or allied products may become a Corporate Fellow by paying Rs. 1,00,000/- (Rupees One lakh only) which is to be approved by Executive Council of NABS.

v. Honorary Life Member

A scientist with Ph.D. in biological science is eligible to become a Honorary Life Member without paying membership fee. However, such membership is enrolled under extraordinary circumstances with the recommendation of Executive Council of NABS.

Type of Membership	Membership enrolled during the year										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Life Member	18	95	4	14	69	52	86	91	62	55	21*
Provisional Life Member	-	-	-	-	-	-	-	-	5	7	-
Corporate Life Member	-	-	-	-	1	2	-	2	-	-	-
Corporate Fellow	-	-	-	-	-	-	-	-	1	-	-
Honorary Life Member	-	6	-	-	1	-	-	5	1	-	-

*up to June, 2014

Fellowships and Awards

A. Fellowships

i. Fellow

Conferment of Fellowships on outstanding members of NABS in recognized fields of biological sciences continues from 2005 to till date except during 2006.

Election Year	2005	2007	2008	2009	2010	2011	2012	2013
No. of Fellowship	13	19	18	8	9	9	13	9

ii. Associate Fellow

During the 5th EC meeting held on 4 July, 2008 at Loyola College, Chennai a decision was made to introduce Associate Fellowship to be conferred on members who are below 40 years of age.

In the 6th EC meeting held on 29 September, 2008 at Indian Institute of Spices Research, Calicut, Kerala, it was unanimously decided to confer Associate fellowships to young deserving scientists. A committee was constituted under the Chairmanship of Dr. V. A. Parthasarathy with members Dr. K. Muthuchelian, Dr. Rajesh Singh and Dr. T. Marimuthu as member secretary which will look into the modalities of election for the Associate Fellowship. From the election year 2009 applications were invited for Associate Fellowship.

Election Year	2005	2007	2008	2009	2010	2011	2012	2013
No. of Assoc. Fellowship	-	-	-	1	2	-	1	-

B. Awards

i. Prof. S. Kannaiyan Memorial Award

Founder President, Prof. S. Kannaiyan left us for heavenly abode on 20 October, 2011. In loving memory of Founder President, "Prof. S. Kannaiyan Memorial Award", a prestigious NABS award, was instituted in 2011. The Award is

conferred on outstanding scientists of the country who has immensely contributed for the development of science. The recipient of the award will deliver 'Prof. S. Kannaiyan Memorial Oration'. The first award was conferred during 2012. The recipients are :

Padma Bhushan Dr. R. S. Paroda Chairman, Trust for Advancement of Agricultural Sciences, New Delhi & Former Director General , Indian Council of Agricultural Research, New Delhi.

Dr. Kirti Singh Chairperson, World Noni Research Foundation and President, International Society for Noni Science, Chennai and Former Chairman, Agricultural Scientists Recruitment Board, ICAR, New Delhi, Former Vice-Chancellor, NDUAT, Faizaba (UP), HPKV, Palampur (HP), & IGKV, Raipur & Former Secretary, National Academy of Agricultural Sciences, New Delhi.

Prof. P. I. Peter Chairman, Noni BioTech, Founder, World Wellness Organization and World Noni Research Foundation, Chennai.

ii. NABS-Life Time Achievement Award

The award was instituted during 2014 to honor biologists for their outstanding contributions which resulted in social/economical transformations in the society and science at large. The first award shall be given for the year 2013 as per the decisions of 14th EC meeting held on 26 January, 2014 at University of Madras, Chennai.

Prof. R. R. Hanchinal Chairperson, Protection of Plant Varieties and Farmers' Rights Authority, Ministry of Agriculture, Government of India, New Delhi and Former Vice-Chancellor, University of Agricultural Sciences, Dharwad, Karnataka is the first recipient of the award.

iii. NABS-Best Woman Scientist Award (NABS-BWSA)

Academy felt that woman members should be suitably recognized. NABS- Best Woman Scientist Award was introduced from the election year 2010.

Election Year	2005	2007	2008	2009	2010	2011	2012	2013
No. of Award	-	-	-	-	2	2	-	1

iv. NABS-Young Scientist Award (NABS-YSA)

NABS Young Scientist Award is instituted by NABS in 2013 to identify and encourage young scientist and to nurture the talents. The award carries a certificate and a citation which will be presented during the Annual Meeting of NABS held every year.

All life members of NABS who are not more than 35 years (completed years) as on 1 December and completed SIX months of cooling period are eligible to apply.

Election Year	2005	2007	2008	2009	2010	2011	2012	2013
No. of Award	-	-	-	-	-	-	-	1

v. NABS-Best Scientist Award (NABS-BSA)

The award is to be presented to members of NABS who had outstanding contributions in areas of biological sciences recognized by NABS. The award takes effect from election year 2014. The awards are named after eminent scientists of the country

Basic Sciences	Dr. G. Venkataraman Memorial NABS-Best Scientist Award
Agricultural Sciences & Forestry	Dr. B. P. Pal Memorial NABS -Best Scientist Award
Veterinary & Fisheries	Dr. V. S. Alwar Memorial NABS-Best Scientist Award
Food and Nutrition	Dr. Smt. Rajammal P. Devadas Memorial NABS-Best Scientist Award



vi. NABS-Best Research Paper Award (NABS-BRPA)

The award was instituted in 2012. Best Research Papers published by life members / Provisional Life members in the past three years in reputed high impact journals are awarded; one each under Basic Sciences named as "Prof. T. S. Sadasivan Memorial- NABS Best Research Paper Award"; under Agricultural Sciences and Forestry named as "Prof. G. Rangawami Memorial NABS Best Research Paper Award"; under Veterinary and Fisheries named as "Dr. C. M. Singh Memorial- NABS Best Research Paper Award" and under Food Sciences named as "Dr. V. Subrahmanyam Memorial- NABS Best Research Paper Award".

Election Year	Basic Sciences	Agricultural Sciences and Forestry	Veterinary and Fisheries	Food Sciences
	Prof. T. S. Sadasivan Memorial- NABS BRPA	Prof. G. Rangawami Memorial - NABS BRPA	Dr. C. M. Singh Memorial- NABS BRPA	Dr. V. Subrahmanyam Memorial- NABS BRPA
2012	-	1	-	-
2013	1	1	-	-

4. Awards and Recognition received by members of NABS

Congratulations to all the NABSians who received awards and recognition from various institutions and organizations in the country and outside during 2013-2014.

Name of Member	Name of Award /Recognition received
Padma Awards	
Mahadevappa, M.	
	<ul style="list-style-type: none">Recipient of Padma Bhushan for the year 2014 for contribution in Science and Engineering.
Brahma Singh	
	<ul style="list-style-type: none">Recipient of Padma Shree for the year 2014 for contribution in Science and Engineering.

J C Bose Memorial Award

Paul Khurana



- J.C. Bose Memorial Award is presented by Hon'ble Prime Minister of India during Indian Science Congress-2014.

Other Awards / Recognitions

Abhilash

- Young Scientist Award (Engineering Sciences) by Indian Science Congress Association for work on uranium bioleaching.
- Young Scientist Award (Environmental Microbiology) by Association of Microbiologists, India for the work on Microbe - metal interactions.
- Young Scientist Award by Indian Nuclear Society for work in areas of microbial leaching of uranium and strategic metals.

Biradar, D. P.

- Assumed as Vice-Chancellor, UAS-Dharwad, Karnataka

Parthasarathy, V.A.

- Assumed as 'National Project Coordinator' of UNEP GEF project on Tropical Fruit Trees which is under the control of Bioversity International CGIAR (Mango, Citrus and Garcinia- India, Malaysia, Indonesia and Nepal)

Prakashkumar, R.



- Biodiversity Award 2013 (Jaiva Vaividhya Purasdaram-2013) presented by Minister for Environment & Forests, Government of Kerala, India under Institution category.

Note: Full address of members is available in website of NABS [nabsindia.org]

5. An appeal to contribute for Corpus Fund

Corpus Fund for Prof. S. Kannaiyan Memorial Award is being mobilized. NABS thankfully acknowledge the members who have contributed to Prof. S. Kannaiyan Memorial Corpus Fund [vide list below- continuation]

1. Mrs. Sornamabal Marimuthu
2. Mrs. Banumathi Kannaiyan
3. Dr. P. Usha Rani
4. Dr. Ram Kewal Singh
5. Prof. P. I. Peter
6. Dr. P. L. Gautam
7. Dr. J. Subramani
8. Dr. Kirti Singh
9. Dr. Brahma Singh
10. Dr. P. Rethinam
11. Dr. K. V. Peter
12. Dr. S. S. Kadam
13. Dr. S. Malarvannan
14. Dr. K. Balaraman
15. Dr. M. Swamiappan
16. Ms. Pantnagar Biotech Programme, Pantnagar
17. Dr. K. Natarajan
18. Dr. B. Meena
19. Dr. V.A. Parthasarathy
20. Dr. B. Vasantharaj David
21. Dr. D. P. Ray
22. Dr. M. Subramanian
23. Dr. H. P. Singh
24. Dr. Renu Agrawal
25. Dr. D. J. Bagyaraj
26. Dr. M. Mahadevappa
27. Dr. K. Samiayyan
28. Dr. M. Deiveeka Sundaram
29. Ms. Sun Agro Biotech Research Centre, Chennai
30. Dr. U. S. Natarajan
31. Dr. T. L. Baskaran
32. Dr. K. Shiva Shankar
33. Dr. S. Suresh
34. Dr. S. Nakkeeran
35. Dr. S. Patharajan
36. Dr. R. Elangomathavan
37. Dr. S. Ramesh
38. Dr. R. Rabindran
39. Dr. K. Ramamoorthy
40. Dr. N. Mathivanan
41. Dr. M. Chinnadurai
42. Dr. V. Chellamuthu
43. Dr. S. Sundaravaradhan
44. Dr. Satyabrata Maiti
45. Dr. K. A. Geetha
46. Dr. P. Gunasekaran
47. Dr. K. ThyagaRajan
48. Dr. M. Pandian
49. Dr. S. Mohan
50. Dr. Sandeep Varam
51. Dr. M. Subramanian
52. Dr. Chenna Reddy Aswath
53. Dr. Utpala Parthasarathy
54. Dr. M. Vivekanandan
55. Dr. M. Subramanian

- We earnestly appeal to all the rest of the Life members, NABS Fellows / Associate Fellows, Corporate Life Members, Corporate Fellows and well wishers to contribute to this noble cause. The amount may be paid as Cash or through a Demand Draft / Multicity Cheque drawn in favour of National Academy of Biological Sciences payable at Chennai.
- The fund may also be electronically transferred to the Savings Bank account of the Academy held at State Bank of India; Branch: Valmiki Nagar, Chennai-600 041 / Branch code: 11721 / IFS code: SBIN0011721.
- SB Account No. of the Academy: 10496978637

6. Enroll yourself as a member and be a part of NABS

Types of Membership available (one time payment)

A. Life Member	: ₹2,500/- or US\$ 100/-
b. Corporate Life Member	: ₹10,000/- or US\$ 400/-
c. Corporate Fellow	: ₹1,00,000/- or US\$ 4000/-

- Details of Payment : The prescribed membership fee may be paid either as Indian rupee or US \$ or Demand Draft / Multicity Cheque drawn in favor of “**National Academy of Biological Sciences**” payable at Chennai.
- The fee may also be electronically transferred to the SB account of the academy held at State Bank of India, Valmikinagar branch, Thiruvanniyur, Chennai- 600 041, Tamil Nadu.
- **Account No.: 10496978637 / IFS code: SBIN0011721**
- Down load your application from www.nabsindia.org

Address for all correspondences

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