



NOTICE

THIRTY-EIGHTANNUAL GENERAL BODY MEETING

**On Thursday, January 17, 2019
at 18:30 hrs**

**Venue: DAE Convention Centre
Anushaktinagar, Mumbai-400094**

INDIAN ASSOCIATION OF NUCLEAR CHEMISTS AND ALLIED SCIENTISTS (IANCAS)

(Reg. No. MAH/232/1984/GBBSD)

C/o. Radiochemistry Division

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INDIAN ASSOCIATION OF NUCLEAR CHEMISTS AND ALLIED SCIENTISTS (IANCAS)

Annual General Body Meeting

The Thirty Eighth Annual General Body Meeting (AGM) of the Indian Association of Nuclear Chemists and Allied Scientists (IANCAS) will be held on Thursday, January 17, 2019 at 18:30 hrs at the DAE Convention Centre, Anushaktinagar, Mumbai-400094.

All members are requested to make it convenient to attend the meeting.

Announcement of IANCAS Awards 2018 and Presentation by Awardees

- a) IANCAS-Dr. M. V. Ramaniah Memorial Award
- b) IANCAS - Dr. K.S Venkateswarlu Endowment Lecture Award
- c) IANCAS-Dr. TarunDatta Memorial Award
- d) IANCAS-Prof. H. J. Arnika Best PhD Thesis Award

AGENDA

1. To read and confirm the minutes of the 37th Annual General Body Meeting held on April 11, 2018 at MP Hall, Anushaktinagar, Mumbai.
2. To read and adopt the Annual Report for the term 2017-2018.
3. To approve the Audited Statement of Accounts for the financial year 2017-18.
4. To appoint the Auditors for the financial year 2018-2019 and fix the remuneration.
5. To discuss activities of IANCAS regional Chapters
6. To discuss the future activities of the Association
7. Any other matter with the permission of the Chair.

(Rahul Tripathi)
General Secretary

NOTE:

- a) Any question/suggestion should reach the Secretary, IANCAS on or before January 10, 2019 (Email: rahult@barc.gov.in / secretaryiancas@gmail.com)
- b) Members are requested to bring a valid photo identity proof.
- c) If there is no quorum, the meeting will be adjourned for half an hour and subsequently the meeting will be held at the same venue irrespective of the quorum.

AGM will be followed by Dinner for all the Members.

ANNUAL REPORT

Dear Members,

I welcome you all to the 38th Annual General Body Meeting of IANCAS. It gives me immense pleasure to present briefly the activities of our Association during the period April 2017 to March 2018.

MEMBERSHIP

The Association has 1799 life members (LMs) and 19 corporate members as on March 31, 2018 with an addition of 46 life members during this financial year (2017-18).

BRNS-IANCAS WORKSHOPS

A total of six National workshops: three six days workshops, one three-day, one two-day and one one-day workshops on “Radiochemistry and Application of Radioisotopes” were organized during this period. The brief reports of three National workshops are given below.

1. 95th BRNS-IANCAS National Workshop on “Nuclear Sciences and Applications of Radioisotopes” held at KIIT University, Bhubaneswar, Odisha during May 15-20, 2017

The 95th BRNS-IANCAS National Workshop on “Nuclear Sciences and Applications of Radioisotopes” was jointly organized at Department of Applied Sciences, KIIT University, Bhubaneswar, Odisha during May 15-20, 2017. Dr. S.C. Parida, Product Development Section served as the Workshop coordinator and Shri S.B. Rajore, Radiochemistry Division served as the Practical Coordinator. Dr. Rojalin Sahu from Department of Applied Sciences, KIIT University was the local convener. The Workshop was attended by 80 participants from various University/Colleges in Odisha. Each participant was given a set of two books (IANCAS publications) (i) Fundamentals of Radiochemistry and (ii) Experiments in Radiochemistry.

The workshop was inaugurated by Dr. N.K. Sahoo, Associate Director, Physics Group, BARC and Chairman of BRNS, Basic Science Committee. Dr. N.K. Sahoo gave a broad overview of BRNS activities in his inaugural address. Dr. B.S. Tomar delivered the keynote address where he emphasized various programs of DAE for societal benefit. Prof. P.P. Mathur, Vice-Chancellor, KIIT University was the guest of honour and he described the role of nuclear sciences in the development of various technologies.

The technical program of the Workshop comprised of 13 Lectures and four experiments. A total of 10 resource persons conducted the workshop. The lectures were held during the morning sessions whereas experiments were conducted in the afternoon sessions. Experiments included (1) GM Counter characteristics, (2) Gamma-ray Spectrometry using NaI(Tl) Detector, (3) Determination of Half-life of ^{137m}Ba and (4) Formulation and Quality Control of Radiopharmaceutical using ^{99m}Tc eluted from a ^{99}Mo - ^{99m}Tc Radionuclide. A quiz competition was organized on the final day based on lectures and experiments conducted, which was highly appreciated by the participants. One school workshop was arranged at Kalinga Institute of Social Science (KISS) where Dr. B.S. Tomar delivered a lecture and Shri D.P. Rath demonstrated one experiment. Another workshop was conducted at KIIT International School where Dr. A.V.R. Reddy delivered a lecture and Shri D.P. Rath demonstrated one experiment. Dr. Sandip Basu from RMC delivered a special lecture on “PET-CT and Molecular Targeted Therapy in the practice of Oncology” to Doctors of KIMS hospital as a part of IANCAS workshop and about 75 doctors have attended the lecture. Valedictory function was held on May 20, 2017. Dr. Ashutosh Dash, Head, Radiopharmaceutical Division, BARC was the chief Guest. All the participants were given participation certificates. On behalf of IANCAS, Dr. Ashutosh Das donated two instruments, a G. M. counter and a NaI(Tl) scintillation gamma ray spectrometer along with a set of radiation sources to the institute. The Workshop was concluded with vote of thanks by Shri S.B.

Rajore from IANCAS team and Dr. T.K. Bastia from KIIT. Both the inaugural and valedictory function was highlighted in electronic media and various local and English newspapers.

2. 96th BRNS-IANCAS National Workshop on “Radiochemistry and Applications of Radioisotopes” held during August 7-12, 2017 at Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh

The 96th BRNS-IANCAS National Workshop on “Radiochemistry and Applications of Radioisotopes” was organized at Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, during August 7-12, 2017. Dr. Pranaw Kumar and Sh. R.K.B. Yadav served as Co-ordinator and Practical Coordinator of the Workshop, respectively. Prof. Charu Arora, Head, Dept. of Chemistry, Guru Ghasidas Central University (GGCU), served as the local Convenor of the Workshop. The Workshop was attended by a total of 45 participants, comprising of faculties, Research Scholars and M.Sc Students from GGCU as well as from other Universities & Colleges from near areas of Bilaspur. All participants were given a set of two books (i) Fundamentals of Radiochemistry and (ii) Experiments in Radiochemistry.

The Workshop was inaugurated by Dr. B. S. Tomar, Vice-President, IANCAS and Director RC & I Group, BARC and Dr. A. B. Mukherjee, Associate Director, Reactor Projects Group, BARC. Dr. Mukherjee delivered the keynote address on “Make in India Programme”. He also informed that there is a need to update ourselves with the present day advanced technology. Dr. B. S. Tomar spoke about the activities of IANCAS. Dr. Pranaw Kumar spoke about the theme of the Workshop. Prof. P K Bajpai, Dean, School of Physical Sciences, GGCU, Bilaspur who presided over the function. He also delivered inaugural remarks and thanked IANCAS for organizing such a theme-based Workshop. The technical program of the Workshop (enclosed) comprised of 12 lectures and five simple and informative experiments. A total of eight resource persons conducted the workshop. Experiments on G. M. Counter, NaI(Tl) scintillation-based gamma ray spectrometry, Determination of half-life of ^{137m}Ba, determination of radioactivity in environment and ⁹⁹Mo-^{99m}Tc generator as a Radiopharmaceutical were conducted. A Quiz session was organized based on lectures and experiments and it was highly appreciated by all the participants and organizers. Valedictory function was held on August 12, 2017. Dr M.N. Tripathi, Dean, Student Welfare, GGCU, Bilaspur was the Chief Guest. Dr. Tripathi thanked the resource persons for sparing one-week time and imparting knowledge to the participants. Prof. Arora, gave a technical summary of one-week program. IANCAS certificates were distributed to the participants. On the behalf of BRNS-IANCAS, Sh. R K B Yadav donated two instruments to GGCU, which will be used for teaching and research purposes. Dr. Pranaw Kumar responded to the feedback. Vote of thanks was proposed by Dr S.S. Thakur from GGCU, and Sh. R.K.B. Yadav from IANCAS.

3. 97th BRNS-IANCAS National Workshop on “Radiochemistry and Application of Radioisotopes” held at Bundelkhand University, Jhansi UP, during December 04-09, 2017

The 97th BRNS-IANCAS National Workshop on “Radiochemistry and Applications of Radioisotopes” was organized at Bundelkhand University, Jhansi UP, during December 04-09, 2017. Dr. N.L. Misra and Sh. T.P. Chaturvedi served as Co-ordinator and Practical Coordinator of the Workshop, respectively. The local Convenor of the workshop was Prof. S.P Singh, Head, Department of Geography and Dr. Rekha Lagarakha, Department of Chemistry; Bundelkhand University Jhansi was organizing secretary of the workshop. The chief guest for the inaugural function held at 1030 Hrs on Dec 4, 2017 was Prof. Surendra Dubey, Honourable vice Chancellor of the University whereas Dr. Sangeeta Scientific Secretary, BRNS was special guest and Prof. B.S. Tomar, Vice-President, IANCAS and Director RC & I Group, BARC was key note speaker. Prof. S.P Singh, Dr. Lagarakha and Dr. S.K. Katiyar, Dean, Science faculties also graced the inaugural function. The Workshop was attended by a total of 70 participants, comprising of faculties and Research Scholars from the University, PG colleges in Jhansi, Datia, Allahabad, Reeva and BHU etc coming from the Departments like Basic Sciences, Geological Sciences, Biosciences etc.,. Each participant was given a set of two books (IANCAS publications) (i) Fundamentals of Radiochemistry and (ii) Experiments in

Radiochemistry. In addition, two copies of these books were donated for library also so that these can be referred in future.

The Workshop was inaugurated by the honourable Vice chancellor who emphasized that we have our interaction with radiation in day today life by giving example of X-ray radiograph of body as well as CT scan. Dr. Sangeeta also addressed the participants and encouraged them to get benefit of BRNS opportunities available. Dr Tomar delivered his keynote address on the topic “Atomic Energy Program of India in Service of Nation and Participation of Universities” which was very interactive and a large number of participants asked several interesting questions to Dr Tomar e.g. on preservation of apples, Water contamination problem in Bundelkhand etc. Dr Sangeeta gave a special lecture on the topic “Pursuits of DAE in promoting R&D across the Nation through Board of Research in Nuclear Sciences”. In addition, twelve theoretical lectures were delivered by the resource persons as given in technical program. The talks were interactive and informative. Five experiments were conducted in the workshop. A Quiz session was organized based on lectures and experiments and was well appreciated by the participants. The Valedictory function was presided over by Prof.V.K. Sehgal, Institute of Basic Sciences of the University and the acting Vice Chancellor of the University. Dr. S. Kannan was Special Guest in the Valedictory function.

4. One-Day DAE BRNS-IANCAS Workshop on “Nuclear Sciences and Applications” was held at Jhargram Raj College, Jhargram, West Bengal on September 15, 2017.

Dr. R. Acharya served as the coordinator and the workshop was organized with resource persons from VECC, Kolkata.

5. Three-Day IANCAS National Workshop on “Radiochemistry and Application of Radioisotopes” was held at St. Andrew’s College, Gorakhpur, UP-273001 October 12-14, 2017.

Dr N L Mishra was the coordinator and a total of five resource persons conducted the workshop. Dr B.S. Tomar delivered the keynote address on “ Atomic Energy Program of India and Career Prospects in DAE”

6. A two-day BRNS-IANCAS Workshop on “Nuclear Chemistry and Applications of Radioisotopes” was held at Regional Institute of Education, Ajmer, Rajasthan during March 12-13, 2018.

Shri T.P Chaturvedi was the coordinator of the workshop and Dr. A.V.R Reddy was the Chief Guest.

IANCAS Regional Chapters Annual Reports (2017-18)

IANCAS has four regional chapters to carry out IANCAS activities in various educational institutes (Schools, Colleges and Universities): (i) IANCAS-SRC at IGCAR, (ii) IANCAS Tarapur Chapter, (iii) IANCAS-NRC at Amritsar and (iv) IANCAS-ERC at IOP, Bhubaneswar.

1. Annual report for 1st April 2017- 31st March 2018 of IANCAS – SRC:

Seaborg and Curie Memorial Lectures

The thirteenth Seaborg Memorial Lecture (SML) titled “Instrumentation & control for nuclear power generating plants and Indian scenario” was delivered on 19th April, 2017 at 11.00 hrs in Sarabhai Auditorium, Homi Bhabha Building, IGCAR by Dr. Chandrakant Pithawa, who is the former Director, Electronics and Instrumentation Group, BARC as well as former Director, Manufacturing and Automation Group, BARC and RRF at ECIL, Hyderabad. The fourteenth Curie Memorial Lecture (CML) titled “ Radioisotopes in Medicine: Evolution and Future Trends”, was delivered by Dr. Meera Venkatesh, Director, Division of physical and Chemical Sciences, Department of Nuclear Applications, IAEA, Vienna, Austria on 5th December 2017 in Seminar Hall of CDO building, IGCAR. All these lectures were well received and appreciated.

Colloquium

In addition to the above, a lecture, the sixteenth colloquium, was delivered on the topic “Light and Heavy Particle Accompanied Nuclear Ternary Fission” by Dr. M. Balasubramaniam, Associate Professor, Dept. of Physics, Bharathiyar University, Coimbatore on June 16, 2017 in RCL-Conference Room, IGCAR. The lecture was well received and appreciated.

Workshop on Radioactivity

IANCAS-SRC conducted totally seven college and school workshops during this period i.e. 6 workshops in Tamil Nadu and one in Kerala. IANCAS-SRC is hereby acknowledging gratefully the supports from IGCAR and all the supports including financial from IANCAS-Main body. The details of the workshops conducted in the schools and colleges are given below

S.No.	Date	Host Institution
1.	August 17-18, 2017	Sri Lakshmi College Of Arts and Science, Kallakurichi
2.	Sept 15 -16, 2017	CTTE College, Chennai.
3.	October 11, 2017	Government girls higher secondary school, cheyyar (Tamil)
4.	November 3, 2017	DAV School, Avadi, Chennai
5.	December 14-15, 2017	Karpagam Academy of Higher Education, Coimbatore.
6.	January 3-4, 2018.	Bishop Moore College, Mavelikara, Kerala.
7.	February 2, 2018	Arignar Anna Govt Arts College for Women, Walajapet.

The response to all these workshops was very impressive as ever and well received and appreciated by the host institutions. IANCAS-SRC records its thanks to all the resource persons involved and supported these workshops i.e. Dr. P. R. Vasudeva Rao, Shri C. R. Venkata Subramani, Dr. K. Anantha Sivan, Dr. R. Kumar, Dr. K. A. Venkatesan Mrs. Rajeswari, Dr. R. Kumaresan and Shri G. V. S. Ashok Kumar. We also thank all the other volunteers who helped in conducting lectures, colloquium and workshops especially Shri Robert Selvan, Shri M. Bootharajan and Shri J. S. Brahmaji Rao along with many other members from MC&MFCG who helped directly or indirectly to conduct the IANCAS-SRC related activities very successfully.

I thank Shri R. Sriram, AAO, IGCAR, for auditing the statement of accounts despite his busy schedules. I thank Dr. A. Suresh, the treasurer, for his meticulous efforts in maintaining the financial activities and the executive members of who always supported all the IANCAS activities readily and full-heartedly.

Formation of the new committee for the period from April-2018 to March-2021.

Since the present committee tenure ended in 31st March 2017, an election for new committee was conducted in January to February 2018. The following members were elected unanimously for the forth coming period of April-2018 to March-2021 i.e. with reference to the result communication: IANCAS-SRC/Election/18-21.

S.No.	Name of the post	Names
1	President	Dr.K.Anantha Sivan
2	Secretary	Dr.K.A.Venkatesan
3	Treasurer	Dr.R.Kumaresan
4	Members	Smt.S.Rajeswari
5	Members	Shri.M.Bootharajan
6	Members	Dr.N.Desigan

IANCAS-SRC sincerely thanks Dr. V. Chandramouli who served as the returning officer to have conducted the election process smoothly and efficiently.

2. Activities of IANCAS-Tarapur Chapter:

One lecture was delivered by Dr. Annirudha Kumar, A3F on September 15, 2017 under lecture series on nuclear fuel cycle.

3. Annual Report on of IANCAS– NRC (Northern Regional Chapter)

1. Two Days National Workshop on Nuclear Sciences and Applications of Radioisotopes at S.L. Bawa DAV College Batala during March 28-29, 2018

A two days National Workshop on “Nuclear Sciences and Applications of Radioisotopes” was held during March 28-29, 2018 in SL Bawa DAV College, Batala. The workshop consisted of combination of lecturers and practicals by renowned Scientists from various institutes.

On the first day of workshop, the inaugural session was presided by worthy Sh. Jagdish Raj Sawhney, Chairman Local Committee, SL Bawa DAV College, Batala.. Dr. Varinder Bhatia, Principal of college welcomed invited guests. Dr. AVR Reddy, President, IANCAS, Dr P.C. Kalsi and Dr. Taminder Singh, Workshop Coordinator, Dr. Anu Sharma, Resource Person, Kurukshetra University. The inaugural lecture was delivered by Dr. AVR Reddy.

After Tea break, technical session started with lecture of Dr. AVR Reddy on Nuclear Structure and Stability. In the afternoon session, Dr. Anu Sharma from Kurukshetra University delivered lecture on “Introduction of Radioactivity”. Afterwords, practicals on G.M counters were conducted by workshop coordinator Dr. Taminder Singh. On the second day of workshop (29 March, 2018), the Technical Session started with lecture on “Radiation Detectors” by Dr. AVR Reddy. After tea break, Dr. P.C. Kalsi delivered lecture on Nuclear Track Detectors. His lecture really intrigued the students and every participant wanted to listen more. Dr. P.C. Kalsi and Dr. Anu Sharma organised quiz contest for participants and students. After lunch break, practicals on Solid State nuclear track detector (SSNIDS) were conducted by Dr. P.C. Kalsi. The two days workshop concluded with valedictory ceremony chaired by Sh. Bal Krishan Mittal, Secretary, DAVCMC New Delhi and Sh. Jagdish Raj Sawhney, Chairman, Local Committee. Participation certificates were given to all delegates with appreciation on the behalf of organising team, Prof. Pawan Malik, Convenor of workshop extended a hearty vote of thanks to all speakers for showing deep sense of efforts and appreciations. In the closing remarks.

2. Two-Day BRNS-IANCAS National Workshop on Radiation Detection and Measurements held at SSM College, Dinanagar during March 30-31, 2018.

A Two-Day BRNS-IANCAS National Workshop on Radiation Detection and Measurements was held at SSM College, Dinanagar during March 30-31, 2018. Dr. P.C. Kalsi and Dr. Taminder Singh served as Co-ordinators of the workshop. Prof. R.K. Tuli, Principal, SSM College was Patron of the workshop. A total No. of 75 participants comprising mostly faculties and research Scholars from Department of Chemistry, Physics attended the workshop. Some M.Sc. students were also allowed to attend the workshop. The inaugural function of the workshop started on 30th March. Principal RK Tuli welcomed the guests whereas Dr. P.C. Kalsi described about the workshop in brief. The Chief Guest for the function was Dr. AVR Reddy, President, IANCAS and the session was chaired by Swami Sadanand ji, President Managing Committee, SSM College, Dinanagar. The resource persons were Dr. AVR Reddy, Dr. P.C. Kalsi, Dr. Anu Sharma, Dr. B.S. Bajwa and Dr. Taminder Singh. Dr. AVR Reddy delivered the keynote address. “Atomic Energy Program of India and Career Prospects in DAE.” In addition five talks as given in the technical program were delivered. Dr. AVR Reddy, Dr. P.C. Kalsi, Dr. Anu Sharma, Dr. B.S. Bajwa and Dr. Taminder Singh. The Practical as given in the program were conducted by the resource persons. The theories as well as practical sessions were very interactive.

IANCAS Thematic Bulletins:

One thematic E-Bulletin was published during this period with Dr. A. Dash as the Editor. IANCAS thanks all contributors, Guest Editors and the Editor of the bulletin.

Volume No.	Title	Guest Editor(s)	Editor
XIV (1) November 2017	Indus Synchrotron Applications for Material Characterization	N. K. Sahoo, S. N. Jha and D. Bhattacharyya	Dr A. Dash

ACKNOWLEDGEMENTS:

IANCAS is indebted to Dr. Sekhar Basu, Chairman, AEC& Secretary, DAE, Shri K.N. Vyas, Director, BARC and Prof. P. Rama Rao, Chairman, BRNS for their continuous support and providing generous financial support to sustain the activities of the Association. Special thanks are due to Dr. Sangeeta, Scientific Secretary, BRNS and PO, BRNS for their constant encouragement. IANCAS thanks its Patron Dr. Anil Kakodkar, former Chairman, AEC for his support and encouragement to the Association. IANCAS acknowledges the dedicated efforts and team work of Workshop Coordinators, Resource Persons, Guest Editors and Contributors of thematic Bulletins, and authors/translators of IANCAS publications. IANCAS also thanks Office Staff as well as supporting staff of Radiochemistry and Isotope Group for their help.

General Secretary

Book Post

To

From:

**Dr. R. Tripathi
General Secretary, IANCAS
C/o. Radiochemistry Division
Bhabha Atomic Research Centre
Trombay, Mumbai -400 085**