

Minutes of Annual General Body Meeting held Online on Saturday, October 23, 2021

The Annual General Body Meeting (AGBM) of the Indian Physics Association (IPA) was scheduled in online mode at 1700 hrs. on 23rd October 2021. The meeting was adjourned for 15 minutes due to lack of quorum and was reconvened at 1715 hrs. Meeting was live streamed on Zoom link, with access restricted only to members. A total of 120 members attended the meeting. Prof. S. Ramakrishnan, President, IPA could not attend the meeting due to medical problem and hence the meeting was chaired by Prof. Tanusri Saha-Dasgupta, Vice-President, IPA.

Following agenda items were discussed in the meeting:

- I. Remarks by President, IPA.
- II. Confirmation of minutes of the previous AGBM, held (online) on November 29, 2020.
- III. Presentation of IPA activities a) by General Secretary, IPA & b) GIPWG activities by Chair GIPWG
- IV. Presentation of Accounts by Treasurer, IPA.
- V. An update on revision of Membership fees.
- VI. A Proposal for amendment to rules for election of office bearers
- VII. Proposal for IPA activities 2022
- VIII. Any other matter with the permission of the Chair.
- IX. Concluding remarks by Vice-president, IPA

I. Remarks by President, IPA

Prof. Tanusri Saha-Dasgupta welcomed all IPA members. At the outset, she mentioned that AGBM 2021 is also being held in virtual mode due the continuing pandemic situation and hoped that the situation will improve next year to permit the in-person AGBM. She recounted that in the past year we have lost many eminent personalities -Dr. Srikumar Banerjee, Dr. Hema Ramachandran, Dr. Sengupta to name a few. The loss is not only to IPA but also to the physics community as a whole. She thanked all members for their support to IPA during the pandemic and made following remarks:

“During 2021, IPA activities have continued in online mode. Golden jubilee of IPA was marked through a Webinar Series ‘New Horizons in Physics’ (Sept 2020 - March 2021), which was very well received. The IPA has started a monthly colloquium from April 2021, with ‘Innovative technologies and application’ as a theme. She invited suggestions for speakers and topics for IPA colloquium from IPA members. IPA has also been actively involved with international societies like IOP, APS, AAPPS. IPA has organized special webinars jointly with APS and one more on gender issue is in the pipeline. IPA is a founder member of the newly founded Condensed Matter Division of AAPPS and Dr. S. M. Yusuf the former Vice President, IPA is the Vice Chair of the Executive Committee. The IPA quarterly bulletin, Physics News has been published online. A special Physics News issue was brought out to highlight life and science of Dr. Bibha Chowdhuri, one of the first woman experimental physicists in India.

IPA activities have achieved a wider nationwide reach by engaging with social media. This also includes unique efforts to address pertinent gender issues in physics community. Several new members have joined IPA in the present year. A chapter in Gaya has been initiated and a request for Dehradun chapter has been approved. Roorkee chapter has been very active and achieved the milestone of 100 members. IPA is also happy to announce the launch of online Membership Portal from January 1, 2022. A special lectureship award in memory of Dr. Hema Ramachandran has been instituted by her family.

IPA has received some suggestions for new programmes and many more are expected. Some of these are underway and some are under consideration. All IPA events are announced on the IPA Web page and also on IPA social media channels (FB and twitter).

IPA is thankful to DAE, BRNS for financial support for various activities. However, it is essential to enhance the IPA corpus. The IPA Jubilee fund was launched on the occasion of IPA50 and we have received enthusiastic response from many of the IPA members. IPA is grateful to all the donors and patrons. On behalf of IPA EC, I appeal to all IPA members to generously support the IPA Jubilee fund.

Further, we look forward to comments, suggestions, criticism and active involvement. I thank all EC members for their support and active involvement in IPA activities, and wish everyone safe and good health in the prevailing pandemic situation.”

She then invited Prof. Vandana Nanal (General Secretary, IPA) to present the report on IPA activities.

II. Confirmation of minutes of the previous AGBM, held (online) on November 29, 2020

Prof. Nanal informed that the draft minutes of the previous AGBM, held on 29th November 2020 (online) were made available on the IPA webpage soon after the meeting. Further the minutes were shared during the online meeting and comments were invited from members present. No comments were received.

The AGBM (November 29, 2020) minutes were accepted by the General Body.

Proposed by Prof. E. V. Sampathkumaran and seconded by Prof. Rohini Godbole

Prof. Nanal (General Secretary, IPA) presented the annual report of the activities of IPA.

III. Presentation of the activities of IPA

• Membership and Chapter status update:

New Members enrolled : Life members 94, Annual members 4, student members 7.

Total membership : 4365 life members

We are happy to inform that the Roorkee chapter has reached 100 Life members.

IPA heartily welcomes all new members.

Two new IPA chapters, Gaya and Dehradun, have been opened.

Efforts are underway to reactivate some of the other dormant chapters like Mumbai, Dharwad, and Bhubaneswar.

For online membership management, an IPA member portal is being setup at TIFR, which will be released from January 1, 2022.

IPA appeals to all members to help widen the reach and enhance membership.

• Physics News:

During the period November 2020 to October 2021, a total of 3 issues of Physics News (PN) were published with the support of BRNS grant.

Vol. 50 No. 4 Oct. – Dec. 2020 (Tribute to Govind Swarup) (online)

Vol. 51 No. 3 July – Sept. 2021 (A Tribute to stalwarts) (online)

Vol. 51 No. 1 & 2 Jan. – June 2021 (Tribute to Bibha Chowdhuri) (online and hard copy)

Prof. Srubabati Goswami and Prof. A. K. Grover were Guest Editors for the special issue of Physics News on Bibha Chowdhuri, the first woman experimental high energy physicist in India.

Editorial Board Members are Prof. Arnab Bhattacharya, Prof. Ritban Chatterjee, Prof. Amitabha Lahiri, Prof. Vandana Nanal and Dr. Aradhana Shrivastava.

PN Editorial Board guidelines are set up and are available on the webpage, with a view to make operations smoother and easier for new team members in future.

IPA thanked all the EB members and the guest editors for managing Physics news publication.

Prof. Dipan Ghosh and Dr. S. Kailas, stepped down from PN EB in Dec. 2020 after having shouldered the editorial responsibility for over a decade. The IPA is extremely thankful to them for their tireless efforts and service to Physics News.

• **Lectures & Webinars:**

The IPA50 webinar series was conducted during Sept 2020- March 2021. A total of 26 lectures were organized and You Tube links are available on the webpage.

The IPA monthly colloquium series was launched in April 2021. The present theme “Innovative technologies and applications” is aimed to give a flavour of the role physics and physicists play in different facets of life. The colloquium is held on the first Saturday of every month at 5.00 pm and live-streamed on IPA YouTube. So far 6 colloquia are held and links are available on the webpage.

- Prof. S. Anantha Ramakrishna, Director, CSIR-CSIO, Chandigarh on “Waves in structured Materials: a world of new opportunities” organized on April 3, 2021 by Dept. of Nanoscience & Advanced Materials, Saurashtra University (Rajkot, Gujarat)
- Prof. (Dr.) Samir Kumar Pal, S. N. Bose National Centre for Basic Sciences, Kolkata, on “Application-driven Basic Research for Atmanirbhar Bharat” organized on May 8, 2021 by Department of Physics, Dibrugarh University
- Dr. Praveen Pathak, HBCSE-TIFR, Mumbai on “Science Experiments with Smart Phones” organized on June 5, 2021 by Gogate Jogalekar College, Ratnagiri
- Dr. Rachna Dave, Founder & CEO, MicroGo on “Solving Problems in the Laboratory or solving problems in the ground?” organized on July 3, 2021 by CUTN, Thiruvapur
- Dr. Sandip Patil, IIT, Kanpur & Founder Director, Espinnotech, on “Nanofiber Technology & Its Commercial Opportunities: Future Start-Ups” organized on Aug 7, 2021 by Dept of Physics, CUK
- Prof. K. Adarsha, CEO & Co-Founder, Ayu Devices Pvt. Ltd. SINE, IIT Bombay on “Transformation of a Problem into product” organized on Sept 4, 2021 by NIT, Durgapur
- Dr. D. Siwal, Centre for Medical Physics, Guru Govind Singh, Medical College & Hosp., Punjab on “Detector instrumentation development” organized on Oct.9, 2021 by Dept of Physics, IIT Roorkee

We thank all speakers, coordinators and Dr. Jagtap for support to IPA activities.

In addition, following regular lectures were organized online and most are available on the IPA You Tube channel

P.A. Pandya Lecture:

2019 : Prof. S. Annapurni (Director, IIA) on “Why we should study stars” organized on March 5, 2021 in Bangalore University, Bengaluru.

2020 : Prof. Subhendra Mohanty (PRL, Ahmedabad) on “Wave Dark Matter” organized on September 23, 2021 in Utkal University.

DAE – C. V. Raman Lecture Series 2020-21

1. Prof. V. M. Datar – “Nobel Prizes in Nuclear Science” organized on March 1, 2021 in Central Univ. of Karnataka.
2. Prof. Sudeshna Sinha - “Harnessing Chaos” organized on March 4, 2021 in Himachal Pradesh University.
3. Prof. Rama Govindrajan – “The Dynamics of small particles in flow: Interesting or Boring?” organized on March 8, 2021 in IIT Dharwad.
4. Prof. Anil Bhardwaj - “Challenges and Science of Indian Planetary Missions” organized on March 10, 2021 in Ahmedabad University.
5. Prof. Ajit M. Srivastava - “Detection of Gravitational waves: a new window to the Universe” organized on March 27, 2021 in Mumbai University.

IPA thanks all the speakers and the organizers for the successful organization of online lectures on. IPA is grateful to DAE- BRNS for supporting the DAE – C.V. Raman lectures.

Proposal lectures in 2021-22

For the current year, following speakers are selected and lectures will be organized during November, 2021 – Feb. 2022.

for DAE – C. V. Raman Lecture Series

- Prof. Gautam Bhattacharya (SINP)
- Prof. R. Simon (IMSc)
- Dr. S. Seetha (ISRO)
- Prof. Jayaram Chengalur (NCRA, TIFR)
- Prof. Sanghamitra Bandyopadhyay/ Sushmita Mitra (ISI)

P.A. Pandya Lecture (2021):

- Prof. Indrani Bose (Bose Institute)

IPA – IOP Biennial Exchange of Lecturers (2021):

Prof. Rohini Godbole will deliver 3 online lectures during October - November 2021.

- **New initiatives**

Hema Ramachandran Lectureship award:

A new biennial prize Hema Ramachandran Lectureship Award has been setup in memory of Dr. Hema Ramchandran (1962-2020), a renowned scientist and excellent teacher and mentor, who started her work at Bhabha Atomic Research Centre, Mumbai and later moved to the Raman Research Institute, Bangalore. The award, which is supported by a generous endowment (Rs. 14.0 lakhs) made by her husband, Mr. G.P. Ramachandran, consists of a silver medal, citation and a cash amount of Rs. 1 lakh. The award will be given for innovations in an experimental area of the physical sciences, preferably resulting in a patent application or a specific product or process. The award will be open to all Indian researchers (under the age of 60 years) working in India and affiliated to Indian Institutions, with a preference for young researchers, especially young women scientists. The awardee will give two public lectures- one in the year of selection and one in the following year. A special memorial lecture by Dr. Ravi Gopal Varma, one of the country's most prominent neurosurgeons who is associated with Aster CMI Hospital, Bengaluru will be held on November 24, 2021 (First death anniversary of Dr. Hema).

A proposal received from Vijay Iyer and Disha Bhatia for an interactive workshop "New horizons for young researchers". Such a workshop will benefit the young physics researchers in India, especially, with networking, provide guidance for presentation skills and career opportunities. The plan is to reach out to students, young researches, and faculties in the field of physics in three phases (Phase 1: Ph.D. students, Postdoctoral researchers, young faculties at colleges, Phase 2: Masters students, Phase 3: Undergraduate students). The workshop will be held in Jan-Feb. 2022 and Prof. B. Mohanty has agreed to facilitate this at NISER. The event will be organized zonewise in different parts.

It is proposed to have IPA Annual Meeting at the end of 2022.

- **International collaborative programs**

- MOU between Italian Physics Society (SIF) and IPA was signed in March 2021.
- IPA – IOP MoU, which expired in 2019, was renewed and signed. (next review due on 1 January 2022).

- Participated in round table meetings of global physics societies organised by IOP (UK) to discuss the impact of pandemic and possible ways/initiatives to deal with associated challenges.
- IPA is happy to be a part of the global initiative and endorses the statement detailing “The role of Physics in delivering global green economy”.
- Endorsed APS proposal to UN for 2025 as international year of Quantum Science & Technology.
- IPA continues to stay engaged with AAPPS. In January 2021, the Division of Condensed Matter Physics (DCMP) was founded under AAPPS and IPA is glad to be one of the founding member society.
- The Founding members from IPA are S. Ramakrishnan, Tanusri Saha-Dasgupta, Shobhana Narasimhan, D. D. Sarma, S.M. Yusuf and V. Nanal.
- Dr. S.M. Yusuf is the vice-chair of this newly formed DCMP. DCMP plans to bring out a quarterly newsletter, of which Dr. S.M. Yusuf is the editor and the first issue of the newsletter has been published and is also available in the IPA webpage.
- About 80 IPA members have joined AAPPS DCMP.
- Actively involved in an online conference AC2MP2021 (Dec. 1-3, 2021) & ACMP WEEK by DCMP.
- IPA-APS Webinar was conducted on September 16, 2021 on “*Orientation for Young Researchers Publishing with APS*” primarily aimed for young researchers (students pursuing PhDs and post-doctoral fellows). Speakers were Prof. Mattero Rini, Editor, Physics Magazine and Prof. Samindranath Mitra, Editor, Physical Review Letters. This was followed by Question and Answers with them and a panel of Physical Review Editors.
- IPA- APS webinar “*Towards Gender equity: New Directions & steps*” is planned on Nov. 11 & 12 2021, consisting of a panel discussion and science talks by two eminent scientists – Prof. Shobhana Narasimhan and Prof. Eva Silverstein.

Prof. Nanal emphasized that with the reciprocal society agreement, the IPA members can avail certain membership privileges of partner societies. It was discussed that this should be highlighted and will help in attracting members to IPA.

- **Other activities**

- Supported UPES-IOP-IPA-IAPT science lecture series for school students. 6 lectures were conducted between June – July 2021. IPA supported prize money of Rs. 10,000/- for QUIZ (August 7, 2021) for students.
- ICONN2021, International conference on Nanoscience and nanotechnology (Feb 1-3, 2021) SRM University
- "International Conference on Advanced Materials and Mechanical Characterization" (2-4 Dec 2021) SRMIT, Chennai.

- **Thesis and Olympiad awards**

IPA Rahul Basu Memorial Awards (Rs. 25000 and citation) for 2019-2020 were given during DAE BRNS symposium on High Energy Physics, (December, 2020) in online mode at National Institute of Science Education and Research.

Winners:

Dr. Resmi P K, Indian Institute of Technology Madras

Thesis title “Measurement of the CKM angle ϕ_3 from $B^\pm \rightarrow D (K_S^0 \pi^+ \pi^- \pi^0) K^\pm$ decays and future prospects”

Dr. Manibrata Sen, Tata Institute of Fundamental Research, Mumbai

Thesis title “New aspects of supernova neutrino flavour conversions: In the standard model and beyond”.

Runners up (only citation):

Dr. Chandrodoy Chattopadhyay, Tata Institute of Fundamental Research, Mumbai

Thesis title: “Entropy production and thermal fluctuations in higher-order dissipative hydrodynamics”

Dr. Rafiqul Rahaman, Indian Institute of Science Education and Research, Kolkata

Thesis title: “Study of anomalous gauge boson self-couplings and the role of spin-1 polarizations”.

Dr. Suman Chatterjee, Tata Institute of Fundamental Research, Mumbai

Thesis title: Jets as probes for precision measurements and candles for physics beyond standard model.

Other IPA Thesis and Olympiad awards not given in 2020 due to Covid-19 pandemic.

- **Chapter activities**

Most of the chapter activities were adversely affected by pandemic. Hyderabad Chapter organized a special online lecture by Prof. A.V. Gopal (TIFR, Mumbai) on occasion of National science Day “Metamaterials for Quantum Information Processing”. Roorkee chapter has organized several lectures and details are available at https://www.iitr.ac.in/departments/PH/pages/IPA_Talk_Details.html

Prof. Nanal thanked EC members, Dr. P. C. Rout (Secretary, IPA50), Shiraz Momin, S. Kausalya, S. Mujumdar (for IPA membership portal), B. Satyanarayana & R. R. Shinde (for technical assistance during webinars), Sanjoy Pal (for webpage maintenance), Anamika Parihari (for assistance with IPA social media). She also thanked IPA office staff – Ms. Suvarnalatha and Ashok Dhule for their support.

- **Activities of Gender In Physics Working Group (GIPWG)**

Prof. Srubabati Goswami (Chair, GIPWG) informed that the GIPWG was established in 2017. It is proposed to have 2 year term synchronous with IPA EC. The present group for 2021-22 was set up in January 2021 with following members:

S. Goswami (Chair)

Aditi De (Harishchandra Research Institute)

Deepa Chari (Homi Bhabha Centre for Science Education)

V. Madhurima (CUTN, Thiruvapur)

Gautam Menon (Ashoka University)

Ex-officio

Prajval Shastri (Past chair)

Vandana Nanal (IPA EC representative)

Rukmini Mohata (Central University, Hyderabad; Chair, High Energy Physics gender group)

Preeti Kharb (NCRA-TIFR, Chair-WGGE, ASI)

A brief history of the efforts of the women in physics since 2000, which led to the launch of the GIPWG appears in an article by Prof. Sumathi Rao in Bibha Chowdhuri commemorative issue of Physics News.

A brief of summary of the activities of GIPWG was presented:

- High Energy Physics Gender Group was formed.

Members of this group are Rukmani Mohanta, HCU, (Chair), Ajit Srivastava, IOP, Neha Shah, IIT Patna, Harleen Dahya, NIT, Jalandhar, Nabamita Mukherjee, IISER Bhopal, MoonMoon Devi, Central University of Assam, Tezpur.

Members of the Mentor Group are - D. Indumathi, IMSC Chennai, Anuradha Mishra, Mumbai University, Debashish Ghoshal, JNU, Anju Bhasin, Jammu University.

The report on HEP Gender Group information was published in Physics News 51(3)- 2021 issue.

- A paper of “Gender Status in physics profession in India” was presented at the International Conference of Women in Physics (ICWIP), an online conference organized by IUPAP, during 11–16 July 2021. All the GIPWG members could participate as the programme was online and also a few senior scientists participated as observers. The poster also presented initiatives, government measures and outcomes of the IPA meeting “Pressing for Progress 2019” held in Hyderabad- Hyderabad Charter. The poster was very much appreciated by the International community. The Hyderabad Charter got mentioned in the summary talk of ICWIP.
- The Chair, GIPWG gave two presentations in ICWIP as the India team leader.
- The Chair, GIPWG participated in Gender Diversity Panel in TAUP 2021
- IEEE-IPA joint event (talk by Padmapriya (HAL) and a panel discussion) was organised on 20th March, 2021
- Deepa Chari, V. Nanal, S. Goswami participated in mentoring programmes in Vigyan Vidushi initiated by TIFR. Students appreciated this programme.
- A paper on gender issues has been accepted for Lepton-Photon conference to be held in Dec. 2021

Following activities are planned for the coming year:

- Collection of gender statistics in wider aspects (PhD students, faculties, awards, leadership positions)
- Mentoring and career development workshop for women students (conducted by Deepa Chari and V. Madhurima) 2 workshops are planned on confidence building (dealing with imposters) in physics field (women only) and 1 on career opportunities. These are largely derived from Vigyan Vidushi workshops.
- IPA-APS webinar focused on Gender issues on 11th and 12th November
- Annual Women Researchers’ Interaction Meeting (WRIM) is proposed by Prof. R. Godbole (tentatively in Feb. 2022).
- Letter of intent to be submitted for hosting ICWIP 2023 (online)

It was noted by members present that it is heartening to see that GIPWG has helped to create more awareness and is playing an important role at the national level.

After due deliberation the report on IPA activities was accepted by the General Body.

Proposed by: Dr. S. M. Yusuf and seconded by Dr. Samit Mandal

IV Account status and update

Aradhana Shrivastava, Treasurer, IPA, presented the accounts of IPA for the financial year 2019-2020 and updated about status of accounts in 2020-2021.

She informed that the account statement for the period 2019-2020 was audited by Mr. M.V. Mahashabde and the Income Tax Return was filed. She said that the new CA Mr. V. V. Joshi was appointed to audit the accounts for the period 2020-2021 and draft account statement was received by Mr. V.V. Joshi and the IT will be filed before due date.

She informed that the audited statements of accounts of IPA50 Series and DAE C. V. Raman (2020-21) were submitted to DAE- BRNS.

The Grant of Rs. 2 lakhs for DAE - C.V. Raman (2021-22) has been received.

An extension was sought for the BRNS for Physics News grant, as the printing of special issue on Bibha Chowdhuri was delayed due to pandemic. The accounts are expected to be settled by end of November 2021. Fresh Application for Physics News grant for 2022-25 will be submitted to BRNS (for 2 online issues + one special issue hard copy per year.)

She informed that the “IPA jubilee fund” was launched last year and a few members have generously donated towards this fund. Expenses towards colloquium series, outreach program and deficit in award expenses, and other IPA activities will be met from the jubilee fund with the due approval of EC.

The present Account status of Jubilee Fund (in Rs.):

Donation received till 30th September 2021	72,000.00
<u>Expenditure:</u>	
UPES –IOP-IPA-IAPT prize	10,000.00
IPA colloquium	20,000.00
Zoom meeting license (1 year)	13,179.00
IPA APS webinar zoom license (1 month)	29,518.00

Additionally, some of the earlier donations and corpus (like Physics News donation and Solid State Physics Symposium funds) are being consolidated in this account and detailed amount will be available after completing the audit of 2021-22 accounts statement.

Further, existing funds and corpus are being reorganized for ease of book keeping.

- Multiple Fixed Deposits (FD) are being consolidated, retaining all FD accounts only in SBI and current account in PNB.
- Endowment balance statement has been sent to family representatives of Iyengar Memorial award, Buti Foundation award, M. M. Chugani Memorial award. Statements for other endowments are under preparation.
- As was agreed upon by EC last year, part of the balance interest amount is added to enhance the award endowment:

P. A. Pandya lecture (Rs. 1 Lakh), C. L. Bhat Astronomy Olympiad awards (Rs. 0.8 lakh), Rahul Basu Best Thesis award (Rs. 0.5 lakhs)

Additional donation received from family towards respective endowments: C V K Baba best thesis award- Rs. 0.4 lakh, Rahul Basu best thesis award – Rs.1 Lakh

Net Endowment amount after the enhancement

	Rs. lakhs
P. A. Pandya endowment	6.0
C. L. Bhat award	2.5
C. V. K. Baba award	2.0
Rahul Basu award	10.5

It was mentioned that for Chapter share payments, the opinion of EC will be sought regarding payments of arrears for the previous years. It was also emphasized that due to falling interest rate there is deficit for expenses for most of the awards.

After due deliberations the accounts were approved by the General Body.

Proposed by: Prof. D. Narasimha and seconded by Dr. D. V. Udupa

V Update on Revision of Membership Fees

It was informed that the last revision of Membership fees was done in 2016. In view of the falling bank interest rates, the Life Membership fees (Indian) is increased from Rs. 3000/- to Rs. 5000 w.e.f August 1, 2021. Student membership fees are kept unchanged. To make IPA membership attractive to eminent foreign scientists, Life Membership fees (Foreign) is changed to USD 500 (from USD 1000). It is explicitly clarified that Indian membership is applicable to members with Indian affiliation and foreign membership applies to members with foreign affiliation. The Library Subscription is discontinued as Physics News is freely available online. Special issues, which will be available in print, can be purchased on payment.

VI Proposal for Amendment to Rules for Election of Office Bearers:

Many IPA members have expressed the need to amend the nomination procedure for IPA office bearers to ensure high academic standards. In this connection, following proposal has been put forward by from Prof. Amit Roy, Former Director IUAC, who has been associated with IPA from its inception.

“The Indian Physics Association has been functioning since 1974 and has grown into a vibrant body for all practising physicists and students in the country. Increasingly, the IPA has been interacting with similar Physics Associations in other countries and conducting joint activities with the international physics community. It is felt that some amendments in the rules for nomination and election of Office-bearers of IPA are required to handle the increased demands of their offices.

Proposed amendment to Rules for Election and Nomination of Office bearers of IPA.

1. Nomination to the positions of President, Vice-President, Secretary, Joint Secretary and Treasurer of IPA, can be done by any three members of IPA belonging to the following categories:

Former office bearers of IPA, Directors of Scientific Institutions, Deans of science of any teaching institution, Fellow of any science academy of India.

2. The nominees should be members who have made outstanding contributions to any area of physics and have a minimum of 20 years of experience of research / teaching or development.

Members present endorsed the suggestion. After due deliberations, it was discussed and decided that out of 3 members at least 1 member should be IPA life member.

Prof. Nanal informed that consideration for amendment in rules and regulations, the proposal needs to be endorsed by 10% of eligible life members. It was suggested to seek the opinion on the above and if there is requisite support then amendment can be done as per due procedure.

Prof. Nanal requested members to send suggestions to ipa1970gs@gmail.com.

VII Proposal for IPA activities 2022

There was a lot of open discussion and following points emerged

- i) Benefits for IPA members regarding interactions with international partner societies should be highlighted.
- ii) For awards, nomination of women scientists should be enhanced and appropriate measures need to be thought off.
- iii) IPA lectures should cover all subject areas of physics and applied physics.
- iv) The IPA meetings, lectures should be held in hybrid mode to ensure wider participation.

VIII Any other matter with the permission of the Chair

Prof. Nanal informed that Prof. Rohini Godbole has been invited to speak at the Invitation to speak at American Physical Society's Annual Leadership Meeting, which is a great honour.

Members are requested to send suggestions, feedback on Physics News and Physics News website by email.

IX Concluding remarks by Vice-President, IPA

Prof. Tanusri thanked all the attendees for active participation and suggestions. She said that IPA is moving forward and we need to build on the momentum.

The meeting concluded at 1835 hrs.

Vandana Nanal

General Secretary, IPA (2020-2022)