



INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
JADAVPUR, KOLKATA 700032

1.11/AGM/2018

January 25, 2019

To : All Members/Fellows of the Association

Dear Sir/Madam,

In continuation of this Office Letter No. 1.207/AGM/2018 dated 24th December, 2018, I am advised to convey that the following Agenda Items will be taken up for discussion in the Annual General Meeting of the Association scheduled to be held on Monday, the 11th February, 2019 at 11.30 a.m. in the MLS Hall of the Association.

It may be mentioned that no notice of motion has been received from any member.

The criteria for Membership and the Code of Conduct as agreed by the Governing Council and as brought in force are enclosed for your kind perusal.

You are requested to make it convenient to attend the meeting.

(P Banerjee)
Acting Registrar

A G E N D A

Item No. 1 : Confirmation of the minutes of the Annual General Meeting held on 22nd May, 2017 and adjourned meeting held on 29th May, 2017. (Copy of the Minutes is being circulated as Annexure - I)

Item No. 2 : Report of the Action Taken on the Resolutions of the Annual General Meeting held on 29th May, 2017.

Due to lack of quorum the meeting was adjourned and re-scheduled on 29th May, 2017 at 11.00 a.m. in the MLS Hall of the Association.

Following actions have been taken on the resolutions of the Annual General Meeting held on 29th May, 2017 :

Item No.	Matter	Brief notes on the action taken
1.	Confirmation of the minutes of the Annual General Meeting held on 22 nd June, 2016 and adjourned meeting held on 1 st July, 2016.	Since there were no comments, the minutes were confirmed.
2.	Report of Action Taken on the resolutions of the Annual General Meeting held on 1 st July, 2016.	As there was no comment received, the Action Taken Report on the 1 st July, 2016 was confirmed.
3.	Consideration of the Annual Report for the year 2015-'16 as approved by the Governing Council at its meeting held on 2 nd July, 2016.	The Annual Report for the year 2015-'16 was considered and approved by the General Body.
4.	Consideration of the Budget Estimate for the year 2016-'17 as recommended by the Governing Council in its meeting held on 02.07.2016.	The Budget Estimate for the year 2016-'17 has been unanimously approved.
5.	Consideration of the Audited Statement of Accounts of the Association for the year 2015-'16	As no comment was received from any member, the Audited Statement of Accounts of the Association for the year 2015-'16 as incorporated in the Annual Report was unanimously approved.

6.	To announce the names of the Office Bearers and Members, nominated and elected, of the full Council for the next term.	The names of the full Council, as follows, for the next term were recorded. i) Professor Man Mohan Sharma, FRS (Chairman) Nominated by the Department of Science & Technology, Government of India ii) Professor Man Mohan Sharma, FRS, President, IACS (Ex-Officio Member) iii) Secretary to the Government of India, Department of Science & Technology or his nominee (Ex-Office Member) iv) Financial Advisor, Government of India, Department of Science & Technology, or his nominee (Ex-Officio Member) v) Director, IACS (Secretary General) vi) Professor Kare Narain Pathak vii) Professor Amit Basak (Nominated by the Government of India, Department of Science & Technology, for three terms) viii) Professor Mohan MJ ix) Professor Sudhir K Jain (Nominated by the Governing Council of IACS for three terms) x) Professor Lingadahalli Subrahmanya Shashidhara (Nominated by the INSA for three terms) xi) One representative from the Government of West Bengal, who would be an ex-officio member xi) Dr. Ayan Datta (Elected from amongst Academic Staff for one term) xii) Shri Prabir Manna, Assistant Registrar,
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		Administration, IACS (Elected from amongst Administrative and Technical Staff for one term) xii) Smt.Debdutta Halder (Elected from amongst Research Fellows and associates for one term) xiii) The Registrar (Non-Member Secretary).
7.	It may be noted that in accordance with the revised Regulations 11.1, the Governing Council at its meeting held on 24th February, 2017 recommended the name of Professor M M Sharma, FRS as the Council Nominee for the post of President of the Association for the second term. It may further be noted that the Management Committee as per the revised Regulation 11.1 for the three terms (the period between one Annual General Meeting to the next shall be counted as One Term) with the following composition has been formed by the General Body in its Annual General Meeting held on 1st July, 2016. Vice President (Two Positions) : Director, IACS, Vice President (Ex-Officio)	Noted and recorded.

	Professor Alok Kumar Mukherjee Hony. Secretary (One Position) : Professor Amitava Dutta Hony. Treasurer (One Position) : Professor Sanjib Ghosh Members, Management Committee : (Six Positions) Professor Dhiranjan Roy Professor Indrani Bose Professor Debasish Bhattacharya Professor Subir Ghosh Dr. Bhupati Chakraborty Dr. Chinmoy Kumar Ghosh	
8.	Any other matters with the permission of the Chair.	In responding to various points raised by the members, the President appreciated the interest taken by the members and colleagues of IACS to its development. He made a clarion call to members to donate whatever they want to the corpus of IACS for which they will get 80G exemptions. The corpus may be utilized for development of the Association independently going beyond the stipulated government rules. According to him, Forum, Alumni, philanthropy and CSR would be the possible source for generating corpus fund. According to him, IACS possesses all potential and this has to be en-cashed for further growth and development beyond expending government fund.

Item No. 3 : Consideration of the Report of the Outreach Activity carried out since the last Annual General Meeting enclosed as Annexure V.

Item No. 4 : Consideration of the Annual Report for the year 2016-'17 as approved by the Council in its meeting held on 16.09.2017 (Annual Report is posted on the IACS Webpage . However, a copy of the summary report is enclosed as Annexure II)

Item No. 5 : Consideration of the Budget Estimate for the year 2017-'18 as recommended by the Council in its meeting held on 02.07.2016 (A copy of the 'Budget at a Glance' is enclosed as Annexure III)

Item No. 6 : Consideration of the Audited Statement of Accounts of the Association for the

year 2016-'17 (Audited Statement of Accounts is incorporated in the Annual Report at Page Nos. 186 to 195. A copy of the Audited Statement of Accounts are enclosed as Annexure - IV).

Item No. 7 : Announcement of the names of the Office Bearers and members, nominated and elected, of the full Council for the next term (According to the Regulation 7, the period from one Annual General Meeting to the next shall be counted as one term)

Item No. 8 : It may be noted that in accordance with the revised Regulation 11.1, the Governing Council at its meeting held on 24th February, 2017 recommended the name of Professor M M Sharma, FRS, as the Council Nominee for the post of President of the Association for the second term. It may further be noted that the Committee as per the revised Regulation 11.1 for three terms (the period between one Annual General Meeting to the next shall be counted as One Term) with the following composition has been formed by the General Body in its Annual General Meeting held on 1st July, 2016.

Vice President (Two Positions) : Director, IACS, Vice President (Ex-Officio)
Professor Alok Kumar Mukherjee

Hony. Secretary (One Position) : Professor Amitava Dutta

Hony. Treasurer (One Position) : Professor Sanjib Ghosh

Members, Management Committee : Professor Dhiranjan Roy
(Six Positions) Professor Indrani Bose
Professor Debasish Bhattacharya
Professor Subir Ghosh
Dr. Bhupati Chakraborty
Dr. Chinmoy Kumar Ghosh

Item No. 9 : Any other matters with the permission of the Chair.

(P Banerjee)
Acting Registrar



**INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
JADAVPUR, KOLKATA 700032**

ANNEXURE -I

Minutes of the Annual General Body Meeting of IACS held on 22nd May, 2017 at
12.00 Noon in the MLS Hall of the Association

Members Present on 22nd May, 2017

Prof. Alok Kumar Mukherjee, Vice President, in the Chair.

1.	Prof. Alok Kumar Mukherjee	2.	Prof. Santanu Bhattacharya
3.	Sombhu Nath Moulik	4.	Abhijit Basak
5.	Nirmalya Dutta	6.	Hasi Ray
7.	Dr. Narayan Chandra Ghosh	8.	Amit Chakraborty
9.	Sasanka Maji	10.	Dr. Tapan Kumar Chakraborty
11.	Sachin Das	12.	Dr. Kartick Gupta
13.	Prof. Subrata Ghosh	14.	Prof. Aswini Ghosh
15.	Rahamatulla Molla	16.	Arun Dutta
17.	Subrata Ghosh	18.	Dr. Jnanendranath Mondal
19.	Gautam Chattopadhyay	20.	Tamal Chakraborty
21.	Surjya Sarathi Bhattacharyya	22.	Amit K Majumdar
23.	Sankar Chakravarti	24.	Subrata Basu
25.	Debatosh Majhi	26.	Pitambar Nayak
27.	Arup Kumar Bandyopadhyay	28.	Dr. Manoj Marik
29.	Subhash Biswas	30.	C K Das
31.	Bani Brata Roy	32.	Paritosh Kumar Chakraborty
33.	Bhola Nath Mondal	34.	Buddhadeb Pathak
35.	Abhijit Dasgupta	36.	Sankirtan Sardar
37.	Sandip Dalui	38.	Dr. Amal Kumar Ghoshal
39.	Swapan Pal	40.	Dipanwita Chakraborty
41.	Indra Nath Bhowmick	42.	Sutapesh Dutta
43.	Subrata Roy	44.	Dr. Dilip Kumar Modak
45.	Dr. Subrata Das	46.	Subrata Pal
47.	Saroj Kumar Saha	48.	Adhir Nath Ghatak
49.	Shyamal Saha	50.	Dr. Prasanta Kumar Sarkar
51.	Apu Chakraborty	52.	Asit Maity
53.	Manaranjan Khan	54.	Subrata Das
55.	Ananda Pal	56.	Anita Choudhury

57.	Subir Kumar Nath	58.	Manika Banerjee
59.	Debabrata Das Roy	60.	Buddhadeb Sarkar
61.	Basudeb Dafadar	62.	Dr. Ajit Kumar Datta
63.	Dr. I Chakrabarti	64.	Dr. Kumares Mira
65.	Dr. Dilip Kumar Nag	66.	Sandipan Seal
67.	Indira Datta	68.	Prasanta Kumar Kundu
69.	Dr. Chanchal Guha Roy	70.	Ranjan Hazra
71.	Dr. Raghu Nath Bera	72.	Dr. Sudipta Midday
73.	Sujit Kumar Banerjee	74.	Swapan Kumar Ghose
75.	Dr. Ajit Kumar Pal	76.	Ajoy Kumar Mukherjee
77.	Biswanath Hazra	78.	Susil Kumar Sarkar
79.	Dr. Ratna Ghosh	80.	Partha Pratim Bhattacharyya
81.	Kamal Kumar Datta	82.	Dr. Manash Kuamr Ghosh
83.	Dr. Sudip Malik	84.	Prof. Subodh Kumar De
85.	Prof. Abhijit Kumar Das	86.	Dr. A K Sanyal
87.	Prof. B K Chaudhury	88.	Sanjoy Mukhopadhyay
89.	Dr. Sujit Kumar Chatterjee	90.	Gopal Krishna Manna
91.	Arun Kumar Guha	92.	Akhil Ranjan Das
93.	Dr. Ramchandra Yadav	94.	Dr. Santosh Kumar Maji
95.	Dr. Swapan Deoghuria	96.	Dr. Ramesh Chakrabarti
97.	Dr. Nikhilesh Chowdhury	98.	Dr. Ashok Kumar Gayen
99.	Prof. Tanusree Kar	100.	Dr. Arun Kumar Guha Sarkar
101.	Dr. Amitava Chatterjee`	102.	Kalyan Bhattacharya
103.	Utpal Chakraborty	104.	Dr. Kalpana Sarkar
105.	Sekhar Mukherjee	106.	Jayanta Kumar Gupta
107.	Satyabrata Roy	108.	Prof. Subhas Chandra Roy
109.	Prof. Amlan Jyoti Pal	110.	Prof. Tarun Kuamr Mandal
111.	Prof. Prasanta Kumar Das	112.	Dhruba Dasgupta
113.	Tapan kuamr Moulik	114.	Nabamita Paul
115.	Ranjit Kumar Pal	116.	Ashis Kumar Sen

Professor Santanu Bhattacharya, Director, IACS & Ex-Officio Vice President, IACS Management Committee, initiated the proceedings of the meeting welcoming the members and informed the House that due to pre-occupation, Professor Man Mohan Sharma, FRS, President, IACS, could not be present and in his absence Prof. Alok K Mukherjee, Vice President, would preside over the meeting.

Welcoming the members, Prof. Alok K Mukherjee, Vice President, said that since the attendance of the requisite number of members to form a quorum (i.e., a minimum of 439) could not be attained, the meeting was declared adjourned. It was then announced that the adjourned meeting would be held on Monday, the 29th May, 2017 at 11.00 a.m. in the same venue.

Members Present on 29th May, 2017
Professor Man Mohan Sharma, FRS, President, in the Chair

1.	Bani Brata Roy	2.	Adhir Nath Ghatak
3.	Prof. M M Sharma	4.	Prof. Santanu Bhattacharya
5.	Prof. Alok Kumar Mukherjee	6.	Abhijit Basak
7.	Dr. Jnanendranath Mondal	8.	Prof. Subhas Chandra Roy
9.	Arun Dutta	10.	Prof. Aswini Ghosh
11.	Indranath Bhowmick	12.	Rahamatulla Molla
13.	Dr. Malay Kanti Sikdar	14.	Dr. Dilip Kumar Modak
15.	Tapas Kumar Das	16.	Buddhadeb Bhattacharya
17.	Paritosh Kumar Chakraborty	18.	Subrata Ghosh
19.	Dr. Swapan Deoghuria	20.	Surjya Sarathi Bhattacharyya
21.	Sutapesh Dutta	22.	Dr. Chitta Ranjan Santra
23.	Dr. Manorama Chatterjee	24.	Sandipan Seal
25.	Prof. Chandra Kanta Ghosh	26.	Nabanita Paul
27.	Satyabrata Roy	28.	Ranjan Hazra
29.	Saroj Kumar Saha	30.	Debabrata Das Roy
31.	Sankirtan Sardar	32.	Sandip Dalui
33.	Prof. Sreebrata Goswami	34.	Tamal Chakraborty
35.	Dr. Ajit Kumar Pal	36.	Syamal Kumar Roychowdhury
37.	Dr. Arun Kumar Guha	38.	Joydeb Mondal
39.	Abhijit Dasgupta	40.	Subrata Roy
41.	Dr. Sankar Chakravarti	42.	Dr. Chitra Basu
43.	Mamata Bhattacharya	44.	Amit Chakraborty
45.	Pushan Banerjee	46.	Dr. Arun Kumar Sarkar
47.	Partha Mitra	48.	Prof. Arun Kumar Nandi
49.	Prof. Subodh Kumar De	50.	Ashok Kumar Gayen
51.	Suchitra Kumar Mandal	52.	Dr. Asis K. Sanyal
53.	Sachin Das	54.	Nirmalya Dutta
55.	Gita Punkayastha	56.	Ajoy Kumar Mukherjee
57.	Dr. Chanchal Guha Roy	58.	Dr. Sukla Mukhopadhyay
59.	Dr. Biswanath Mallik	60.	Prof. Tanusree Kar
61.	Dr. Samir Chandra Saha	62.	Shyamal Saha
63.	Dr. Naba Kumar Datta	64.	Dr. Bhupati Chakrabarti
65.	Sujit Kumar Banerjee	66.	Dr. Saswati Lahiri
67.	Sasanka Maji	68.	Sekhar Mukherjee
69.	Sanjay Mukhopadhyay	70.	Supriya Chakraborty
71.	Asit Kumar Maity	72.	Kumares Mitra
73.	Prof. Nirmalendu Roy	74.	Radhaballabh Dhar

75.	Gautam Chattopadhyay	76.	Dr. Ratna Ghosh
77.	Prof. Abhijit Kumar Das	78.	Dr. H Ray
79.	Dr. Subhas Chandra Saha	80.	Biswanath Mondal
81.	Utpal Sinha	82.	Dr. Mrinal Kanti Chakraborti
83.	Kamala Kanta Das	84.	Arup Kumar Bandyopadhyay
85.	A R Das	86.	Swapan Thakur
87.	Basudeb Dafadar	88.	Dr. Monika Mukherjee
89.	Dr. Swati Ray	90.	Dr. Chinmoy Kumar Ghosh
91.	Subrata Pal	92.	Susil Sarkar
93.	Chanchal Kumar Das	94.	Kamal Kumar Datta
95.	Nikilesh Chowdhury	96.	S P Ghosh
97.	Biswanath Hazra	98.	Dr. Anup Kumar Das
99.	Subrata Das	100.	Satyabrata Mukherjee
101.	Utpal Chakraborty	102.	Dhruba Das Gupta
103.	Tarasankar Nag	104.	Sujit Chatterjee
105.	Prof. Debajyoti Das	106.	Amitava Chatterjee
107.	Dr. Monika Banerjee	108.	Subhash Biswas
109.	Dr. Kartick Gupta	110.	Dr. Ramesh Chandra Mitra
111.	Swapan Pal	112.	Buddhadeb Sarkar
113.	Dr. Sarajit Basu	114.	Kalyan Bhattacharya
115.	Dr. Jayanta Kumar Saha	116.	Anita Choudhury
117.	Prof. Bimalendu Deb	118.	Dr. Prasanta Kumar Sarkar
119.	Prof. Prasanta Kumar Mukherjee	120.	Dr. S K Basu
121.	Dr. J K Gupta	122.	Subir Kumar Nath
123.	Subrata Basu	124.	Pitambar Nayak
125.	Debatosh Majhi	126.	Dr. Lipika Mullick
127.	Dr. Narayan Chandra Ghosh	128.	Dr. Subrata Das
129.	Prof. Prasanta Kumar Das	130.	Ananda Pal
131.	Manaranjan Khan	132.	Dr. Ajit Kumar Datta
133.	Sanjit Chakraborty	134.	Chandrakanta Bandyopadhyay
135.	Dr. Manash Kumar Ghosh	136.	Dr. Pradip Brahma
137.	Tapan Kumar Moulik	138.	Prof. Amlan Jyoti Pal
139.	Prof. Tarun Kumar Mandal	140.	Dipanwita Chakraborty
141.	Mithun Chandra Majee	142.	Amit K Majumdar

Welcoming Professor Man Mohan Sharma, FRS, the President of IACS and the honorable members of the General Body, Professor Santanu Bhattacharya, the Director, IACS, requested Professor Sharma to address the august house before taking up the Agenda Items.

Welcoming the members, the President applauded the IACS Administration for their efforts in bringing about administrative, academic and infrastructural reforms. He said IACS is a happening place. Many good things are happening in academic arena. All the vexing issues are almost resolved. Integrated Ph.D. Courses in Physics, Chemical Sciences and Biological Sciences are running smoothly in collaboration with Jadavpur University, University of Calcutta and IIT Kharagpur. After persistent efforts, IACS could acquire 30.30 acre land in the Institutional Hub in Baruipur for its 2nd campus. Development work at Baruipur campus would start soon. 64 Ph. D. have been awarded in 2016-'17. DST, GoI is generous in funding to the requirement of IACS. Prof. Sharma requested all to maintain this momentum to the cause of the Institute. He also thanked members for coming and welcome them to the Annual General Meeting.

In reply, Prof. Santanu Bhattacharya, Director, IACS and ex-Officio Vice President, Management Committee, thanked Prof. Sharma for his sagacious advice and guidance in running IACS to its desired path.

Prof. Santanu Bhattacharya then took up the Agenda Items for discussion in seriatim with the permission of the Chair.

Item No. 1 : Confirmation of the minutes of the Annual General Meeting held on 22nd June, 2016 and adjourned meeting held on 1st July, 2016.

1.1 : Since no comment was received, the Minutes of the Annual General Meeting held on 22nd June, 2016 and adjourned meeting held on 1st July, 2016 were confirmed.

Item No. 2 : Report of action taken on the resolutions of the Annual General Meeting held on 1st July, 2016.

2.1 : The Director sought opinion from the members present but as there was no comment received, the Action Taken Report on the resolutions of the Annual General Meeting held on 1st July, 2016 was confirmed.

Item No. 3 : Consideration of the Annual Report for the 2015-'16 as approved by the Council in its meeting held on 02.07.2016 (Annual Report is posted at the IACS Website and a CD containing the same has

been circulated among the members. However, a copy of the summary report is enclosed with the Agenda Notes.)

3.1 : The Annual Report for the year 2015-'16 was considered and approved by the General Body.

Item No. 4 : Consideration of the Budget Estimate for the year 2016-'17 as recommended by the Governing Council in its meeting held on 02.07.2016 (A copy of the 'Budget at a Glance' is enclosed with the Agenda Notes.)

4.1 : The Director informed that the august house that for the year 2016-'17, IACS received a hefty grant from the DST, Government of India. He further informed that the funds received from DST, Government of India and West Bengal were entirely utilized within the financial year by making concerted efforts with the help of computerized ERP.

In this connection, Dr. Dilip Kumar Modak opined that General Body members have the right to discuss the Budget Estimate and without such discussion, General Body will not consider it.

In reply, the Director informed that as per the Regulation 8i), the Budget Estimate, as approved by the Governing Council, is placed in the Annual General Meeting for consideration. He also informed that IACS is receiving over 95% of funds from the Government of India and it has to follow GFR in all its transactions and CAG carries out annual audit each year besides Chartered Auditing is also done. The Director further added that the Governing Council is the supreme authority to run the Association and the Ministry of Science & Technology, Government of India is the nodal agency which bears over 95% of funds. Institute and Societal part has been separated and the General Body has no responsibility on budgetary approval.

Item No. 5 : Consideration of the Audited Statement of Accounts of the Association for the year 2015-'16 (Audited Statement of Accounts was incorporated in the Annual Report at Page Nos. 194 - 197. (A copy of the Audited Statement of Accounts are enclosed with the

Agenda Notes.)

5.1 : As no comment was received from any member, the Audited Statement of Accounts of the Association for the year 2015-'16 as incorporated in the Annual Report was unanimously approved.

Item No. 6 :Announcement of the names of the Office Bearers and members, nominated and elected, of the Full Council for the next term (According to the Regulation 7, the period from one Annual General Meeting to the next shall be counted as one term.)

- i) Professor Man Mohan Sharma, FRS (Chairman)
Nominated by the Department of Science & Technology, GoI.
- ii) Professor Man Mohan Sharma, FRS
President, IACS (Ex-Officio Member)
- iii) Secretary to the Government of India, Department of Science & Technology
or his Nominee (Ex-Officio Member)
- iv) Financial Advisor, Government of India, Department of Science & Technology
or his Nominee (Ex-officio Member)
- v) Director, IACS (Secretary General)
- vi) Professor Kare Narain Pathak
- vii) Professor Amit Basak
(Nominated by the Government of India, Department of Science & Technology, for three terms)
- viii) Professor Mahan MJ
- ix) Professor Sudhir K. Jain
(Nominated by the Governing Council of IACS for three terms)
- x) Professor Lingadahalli Subrahmanya Shashidhara
(Nominated by INSA for three terms)
- xi) One representative from the Government of West Bengal, who would be an ex-officio member
- xii) Dr. Ayan Datta
(Elected from amongst Academic Staff for one term)

- xiii) **Shri Prabir Manna**
(Elected from amongst Administrative and Technical Staff for one term)
- xiv) **Smt. Debdutta Halder**
(Elected from amongst Research Fellows and Associates for one term)
- xv) **The Registrar (Non-Member Secretary)**

Item No. 7 : It may be noted that in accordance with the revised Regulation 11.1, the Governing Council at its meeting held on 24th February, 2017 recommended the name of Professor M M Sharma, FRS, as the Council Nominee for the post of President of the Association for the second term. It may further be noted that the Management Committee as per the revised Regulation 11.1 for the three terms (the period between one Annual General Meeting to the next shall be counted as One Term) with the following composition has been formed by the General Body in its Annual General Meeting held on 1st July, 2016.

- President (One Position) : Professor Man Mohan Sharma, President
- Vice President (Two Positions) : Director, IACS, Vice President (Ex-Officio)
Professor Alok Kumar Mukherjee
- Hony. Secretary (One Position) : Professor Amitava Dutta
- Hony. Treasurer (One Position) : Professor Sanjib Ghosh
- Member, Management Committee : Professor Dhiranjan Roy
(Six Positions) Professor Indrani Bose
Professor Debasish Bhattacharya
Professor Subir Ghosh
Dr. Bhupati Chakraborty
Dr. Chinmoy Kumar Ghosh

Item No. 8 : Any other matters with the permission of the Chair.

With the permission of the Chair, Prof. Santanu Bhattacharya, Vice President, Management Committee and Director, IACS, informed the following :-

- a) The Governing Council at its 2016-2 meeting held on 02.07.2016 noted that IACS Regulation 4.2 states that the Honorary Fellows, not more than 25 in number at time shall be elected by the Council from among eminent personalities. Not more than three shall be elected in a year. The names of the fellows would be reported in the General Body in its subsequent meeting. Presently the Honorary Fellows are Professor C N R Rao, Professor M M Sharma, Professor G Mehta, Professor T Ramakrishnan, Professor Ashoke Sen, Professor Girish

Agarwal. The advantage of having Honorary Fellows is that if an Honorary Fellow is made the Chairman of the Council, s/he can be also the President of the General Body without being a Member of the General Body. This helps in smooth conduction and coordination of the activities of the General Body and the Governing Council. Accordingly, the Governing Council nominated Dr. Srikumar Banerjee and Professor Ajay Sood as the two new Honorary Fellows.

- b) As required under Regular 10.1, the Governing Council in its 2015-1 meeting held on 19.05.2015 recommended the following four names as Trustees for a tenure of 5 (five) years, subject to ratification by the Association in the General Body. This has been ratified.

Prof. Milan Sanyal, SINP
Prof. Anandadeb Mukherjee, JU
Prof. R N Mukherjee, IISER-Kolkata
Prof. Sabyasachi Sarkar, IEST

The meeting ended with a vote of Thanks to the Chair.

(S N Moulik)
Acting Registrar

(PROFESSOR MAN MOHAN SHARMA)
PRESIDENT, IACS



From the Director's Desk

I am happy to bring to you the Annual Report of IACS for the year 2016-17. It highlights the research and educational activities of faculty, staff, students, postdocs, and visitors associated with IACS during the year.

IACS is committed to translational and interdisciplinary research and capacity building of young researchers on developmental and professional science education. Our philosophy of research and teaching emphasizes reaching out to the society and translating fundamental research to technology and other applications for the need of society. The faculty and students received recognition and awards for its extension, research and teaching in several areas. The Institute also forays into international interactions, task forces and several collaborative exchange programs. In meeting these objectives, the Institute adopts research and teaching methods which are innovative and contemporary, unraveling new potentials of its traditional interdisciplinary systems.

IACS originally started its journey in 1876 primarily as a science teaching institute and then slowly emerged as a premier research institute of the country. IACS has been successful in sustaining its performance both in terms of the quality of publications and in terms of the number of PhDs produced. The strong alumni base only vindicates the fact that most of them are well placed in their later career and some becoming leaders in the field. IACS is now concurrently running Integrated PhD in all the three major streams of basic science, viz. Physics (with Jadavpur University), Chemistry (with Calcutta University) and Biology (with IIT-Kharagpur), over and above the regular PhD coursework. The Governing Council of IACS has made teaching mandatory for the faculty as per the original mandates of the Institute. IACS has already started expanding the lab and hostel facilities for accommodating newcomers to the extent possible. IACS is also in the process of additional expansion by starting its 2nd campus at the newly acquired land at Baruipur allotted by the Government of West Bengal.

At present IACS has 13 research departments/units/centers having about 67 number of regular scientists/faculty: and 176 number of regular staff and 491 number of students and young researchers. In the year IACS received a Regular Core Grant of Rs. 96.22 Crores and a Capital grant of Rs. 12.75 Cr. from DST, a matching share of Rs. 4.13 Crores from the West Bengal Government, along with Extramural Research Grant of Rs. 23.01 Crores and Rs. 7.22 Crores under the Technical Research Centre grant. With this IACS continues to preserve its position among the DST-funded institutes by its output parameters in terms of 444 Papers in refereed journals, Average Impact Factor per paper 4.44, 4 patents awarded and 14 patents filed and 58 no. of PhDs produced.

DST has funded setting up a Technical Research Centre (TRC) for Molecules and Materials at IACS, under the new initiative announced as a part of the Finance Minister's Budget Speech 2014. The Centre has a translational goal of trying basic research findings that may be suitable for industry by developing technology through PPP model. The Centre is expected to increase research collaboration in interdisciplinary areas, bringing about an emphasis on experimental research having sound theoretical foundation, and moving forward with the translational goal for environmental, therapeutic and societal applications. Under the TRC initiative, several advanced facilities and instruments are being put together, that would facilitate interdisciplinary research in molecules and materials. The Project has completed its first year and a solution for cyanide sequestration for effluent treatment has been delivered by Prof. Pradyut Ghosh to Tata Steel Pvt. Ltd.. Equipment procurement under the project is on track and an industry-academia conclave at IACS was held for the first time at IACS. The first progress monitoring meeting of the National review Committee constituted by the DST observed that within the ambit of what was required to be done in the first year, IACS has met its goal and they have recommended further continuation of support by the DST. There is a visible cultural change in taking high level science to industrial users.

The academic reforms have been initiated to take place in the form of efforts to get a deemed university status, introduction of Integrated PhD Coursework, drawing comprehensive policy on the students' tenure and fellowship, formulating leave and conduct rules for students, holding colloquium and other lecture series, instituting IACS lecture, introducing performance linked research grant, offering top-up incentives to encourage faculty members to apply for extramural funding, re-initiating faculty appointment, etc.

To mention some of the administrative and financial reforms, one may mention maintaining modest yet steady fund flow by proper planning and utilization of the released funds, monitoring fund

status and utilization through an operational ERP, implementing cashless transactions by opening bank accounts for contingencies and other reimbursements, Digitization of old records, maintaining a digital repository at the IACS website, initiating the process of corpus generation for the institute, formulating Instrument usage charges and for other services, restructuring the department of Central Scientific Services etc.

Towards infrastructural development, IACS has now revamped its electrical wiring and installed safety & alert mechanism in the main building first time since its construction about 70 years ago. A significant part of the Campus premises has been brought under CCTV surveillance, all new construction works are being given to CPWD while regular maintenance after completion and handover is being done by the internal engineers. Existing hostels have been renovated, while Essential Staff Quarters were vacated and converted to a modernized student/faculty accommodation facility. Restoration of ambience and renovation of main building is in progress. The process of land acquisition for the Baruipur campus is on which is expected to be culminated with the formal possession and lease transfer soon. Over the last few years IACS has vastly improved its sophisticated instrumentation facility through the addition of major equipments like EPR spectrometer, Atomic Force Microscope, Helium Liquefier, Single Crystal XRD, Powder XRD, Pure water plant, low temperature freezers, HPC facility, Resonance Raman Spectrometer, etc among others.

I thank the Governing Council for lending its collective wisdom and the Department of Science & Technology and the Government of West Bengal for their generous funding and constant support as and when required to make possible such performance becoming a reality.

Scientists from IACS are involved in many collaborative research works in line with the National S&T institutions and also with the faculty members of the state run Universities and colleges. IACS provides infrastructural support to many such organizations. IACS organizes several workshops, popular lectures for the school and college students to make them aware of the various National S&T enterprises.

The activities described in these pages would not be possible without the dedication and passion of the faculty, staff and students of IACS. Day in and day out, they strive to support IACS in the pursuit of the dreams of its forerunners. They do this in a professional and unassuming manner. To them and to all of you who support in your own way the activities of IACS, a most sincere thanks! Thanks also to the Publication Cell for bringing out this volume.

The aspirations and actions set in motion this year will influence generations to come. We know this well and strive to achieve the maximum impact with the resources entrusted to us. We invest in evaluating our work so that we can continue to learn from what we do and to improve further.

Let us pay rich tribute to our founders and mentors and take an oath to give our very best to uphold values and strengthen portal of quality higher education and research. Together we can usher in a new era that is more just, resilient, and inclusive of all. I look forward to your valuable assistance, support and participation.

Santanu Bhattacharya

Director, IACS

Executive Summary

To quote the Founder, the great visionary, Dr. Mahendra Lal Sircar “The objective of the Association is to enable the Natives of India to cultivate Science in all its departments with a view to its advancement by original research and with a view to its varied application to the arts and comforts of life.” Even today, IACS is dedicated to the realization of the undying dream of its founder and his compatriots. The institute pursues relentlessly theoretical and experimental research in fundamental and basic sciences with emphasis on translating its discoveries into technology wherever possible and train and prepare the younger generation to handle the challenges of the future, be it in the emerging areas of science or technology.

IACS has currently 8 departments (Materials Science, Solid State Physics, Spectroscopy, Theoretical Physics, Biological Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry), 3 units (Energy Research, Mahendra Lal Sircar Professor and Polymer Science), and 2 Centres (Advanced Materials and Atomic, Molecular & Optical Sciences), apart from Service Units that provide research facilitation (Central Scientific Services, Computer Centre, Library, Workshop etc.). These departments, units and centres have been carrying out research and development activities under 4 broad areas. The activities of some of the departments therefore overlap.

1. Molecular Sciences (Organic, Inorganic, Physical Chemistry, Polymer Science, Spectroscopy, Solid State Physics, Advanced Materials, Atomic, Molecular & Optical Sciences)
2. Physics and Chemistry of Materials (Materials Science, Solid State Physics, Polymer Science, Spectroscopy, Energy Research, Advanced Materials)
3. Theoretical Sciences (Theoretical Physics, Physical Chemistry, Spectroscopy, Materials Science, Advanced Materials, Atomic, Molecular & Optical Sciences)
4. Biological Sciences (Biological Chemistry, Polymer Science, Theoretical Physics, Organic Chemistry, Inorganic Chemistry)

Highlights of major achievements in the different departments, units and centres are as follows:

Biological Chemistry

- Self-assembling peptide based functional soft materials
- Peptide stabilized nanoclusters
- Self-assembled soft-nanohybrids
- Carbon nanomaterial included supramolecular systems in biomedicine
- Enzymology and Structure-Function Relationship in Bio-inspired Membrane Mimetic Systems
- Fluorescent Carbon Dots in Biosensing and Bioimaging
- Nanoscale Biosensors
- Nanoscale Bioelectronics
- Single Molecule Force Spectroscopy (SMFS) of Drug-DNA Complexes
- To understand the role of nonmuscle myosin II in bleb dynamics in tumor cell lines

- Functional analysis of Nonmuscle myosin IIs and their mutants found in human patients
- Lipid Droplet (LD): role in the development of zebrafish embryos
- Role of Phospholipid In blood coagulation
- Signalling of microparticle formation from cell surface and role of coagulation factors mediated cell signaling
- Monocyte to Macrophage differentiation

Centre for Advanced Materials

- Synthesis and functionalization of nanoparticle
- Exploring properties of nanomaterials
- Complex nanostructures and assemblies
- Applications of nanoparticles as biological probe
- Energy generation, energy saving using nanomaterials

Director's Research Unit

Chemical Biology:

- Stabilization of non-Watson-Crick nucleic acid structures, e.g., A-motif, C-motif, i-motif & G-quadruplex DNA & RNA.
- Bioactive/Gene Delivery & Knockdown: Plasmid DNA, si-RNA, sh-RNA, aptamer delivery across eukaryotic cells; Targeting of Cancer cells and Cancer Stem cells and in vivo study.

Biological Membranes:

- Structure-Function Studies; Vesicles, Micelles, Signaling in Self-organizing Aggregates; Lipid-DNA Complexation; Lipid-protein Interactions.
- Bolaamphiphiles, Gemini Surfactants, Ion-paired Amphiphiles, Metallo-surfactants, Multi-headed Surfactants etc.
- Association colloids, emulsion, normal and reverse aggregates, Gels.

Supramolecular Chemistry:

- Investigation of the soft materials using a variety of physical methods, e.g., rheology, probe-fluorescence, SANS, SAXS, XRD, DSC, AFM / SEM / TEM / CFM / POM etc.
- Design and synthesis of new gelators & characterization and applications of the resulting gels.
- Phase-selective gelation; Gels for sustained pheromone release toward live insect control in fruit orchard.
- Sensors and probes for analytical, theranostics & bio-analytical chemistry. Detection of biologically relevant species and environmentally hazardous ions or analytes and explosives at nanogram level.

Nanoscience & Technology:

- Nanocarbon-composites and Metal Nanoparticle-composites
- Nanobiotechnology and Nanomedicine
- Application of Nanotechnology in Agriculture etc.

Energy Research Unit

- Current research interest covers the areas of new materials and device structures for application in the next generation solar cells and other optoelectronic devices.
- Activities cover materials like nanocrystalline silicon and silicon quantum dots embedded in various dielectrics, silicon oxide nanowires and a-Si:H/nc-Si:H as well as a-SiC/nc-SiC superlattice structures.
- By controlling the size of the silicon quantum dots the band gap of the material could be varied over a wide range. Solar cell with the absorber layer consisting of silicon quantum dots in a superlattice structure leads towards all silicon tandem solar cells which have been predicted to cross Shockley-Queisser limit.
- Nanostructured carbon e.g., carbon nanotube, diamond like carbon (DLC) as antireflection coatings (ARC) on Si solar cells and nanocrystalline diamond (NCD) thin films as protective coating on optoelectronic devices
- Nanostructured ZnO, ZnO:F, ZnO:Ga, ZnO:Ga:Cu and TiO₂ as transparent conducting oxide and photocatalytic applications in thin film solar cells.
- Theoretical modeling and simulation for analysis of plasmonic enhancement of absorption in thin absorber layers in solar cells.

Inorganic Chemistry

- Participation of redox non-innocent ligand in small molecule activation
- Design of efficient new catalysts that can mimic the enzymatic pathway for catalytic dehydrogenation of alcohols.
- Recognition and sensing of Al³⁺ and phosphates by excited state intra-molecular proton transfer (ESIPT) based highly sensitive ratiometric fluorescence sensor and a bis-heteroleptic Ru(II) complex having halogen bonding iodo-triazole unit.
- Development of supramolecular helical assembly and dynamic interlocked molecular systems.
- Bioinspired oxidation by O₂-derived metal-oxygen oxidants.
- Mechanism of multi-proton and multi-electron processes.
- Spectroscopic and reactivity studies of heme amyloid beta peptides associated with Alzheimer's disease.
- Heterocyclic macrocycles, interlocked molecules, organic optoelectronics and molecular magnetism.
- Carboxylate-bridged nonheme diiron(II) complexes as building blocks for the synthesis of bridged heterometallic systems.

Materials Science

- Electronic, magnetic, catalytic and transport properties of Carbon based 2D nanostructures have been investigated using first-principles approach. In search of noble-metal free catalysts, two novel systems have been explored viz. (a) electron doped C₂N monolayer ideal for CO oxidation (b) T₆ carbon, a novel metallic allotrope of carbon, whose [100] surface turns out to

be catalytically active towards oxygen reduction reaction (ORR). Two-dimensional Graphene/h-BN hetero-structure and their 1D counterparts have been investigated both for phase separated and non phase separated structures. A number of possible configurations of zigzag nanoribbons of B-C-N composite structure have been studied for their electronic and magnetic properties.

- Our discovery of superdense nonmagnetic (SDNM) cobalt in cobalt thin films led us to investigate the dependence of its formation on the film thickness, coating of the film with gold and the type of substrate. In all cases, SDNM cobalt has formed when the cobalt film was grown on clean silicon (i.e. without the native silicon dioxide).
- In the area of ion irradiation induced effects on materials, several investigations have been carried out. Nickel monosilicide (NiSi) is a desirable material for the miniaturization in the semiconductor industry. Nanoscale thin films of NiSi have been produced by ion irradiation of thin Ni films, grown on Si, by overcoming the usual difficulties encountered in standard thermal processing of NiSi. In magnetic multilayers like cobalt/copper (Co/Cu) multilayers, displaying giant magnetoresistance (GMR) effect, ion irradiation has been found to cause a novel phenomenon of sign reversals of magnetoresistance as a function of ion fluence.
- Electrical, optical and magnetic properties of graphene based functionalized nanostructures are investigated. Antiferromagnetic transition in ultrathin Ni(OH)₂ layer grown on graphene surface and observation of interlayer exchange coupling in Ni(OH)₂/graphene/Ni(OH)₂ nanostructures. Amorphous molybdenum sulfide quantum dots have been used to achieve an efficient hydrogen evolution electrocatalyst in neutral medium. Origin of high storage capacity in N-doped graphene quantum dots has been explored. Highly luminescent N-doped carbon quantum dots from lemon juice with porphyrin-like structures surrounded by graphitic network have been synthesized for sensing applications and High selectivity in water soluble MoS₂ quantum dots for sensing nitro explosives.
- Dr Pradhan and his research group works on understanding the involved physical chemistry behind synthesis of high quality inorganic nanocrystals. Mostly, growth followed by non-classical approaches were focused in recent days. This involve multinary nanocrystals, light emitting doped perovskite nanocrystals, structures showing 2D asymmetric growth, methods followed fast growth leading to monodisperse nanostructures etc. Moreover, the group also focused on developing OER and HER electrocatalysts for water splitting using their newly developed materials.
- Realization of elusive J=0 ground state in strongly spin-orbit coupled Iridates, Ruthenates and Rhodates.
- Inducing disorder and fluctuation in solids by anion doping and also by manipulating local coordinations.
- Search of half-metallic antiferromagnets.
- Artificial mineralization and direct removal of arsenic from contaminated water.
- Formation of nanominerals as efficient adsorbent, for using as a general decontaminant.

Organic Chemistry

- Asymmetric and stereocontrolled synthesis of complex natural products of biological significance
- Organometallic chemistry
- Crystal engineering
- Supramolecular chemistry
- Chemical biology and drug development
- Asymmetric catalysis
- Development of novel synthetic methodologies and reagents including nanoparticles and nanomaterials.

Physical Chemistry

- Nonlinear dynamics, Statistical Mechanics
- Confocal Microscopy and Molecular Dynamics Simulations
- Magnetic Field effect on radical pair system and Study of ultra-low frequency terrestrial electromagnetism
- Matrix isolation study and theoretical interpretation of infrared spectral shifts in H-bonded complexes, LIF and dispersed fluorescence spectra of complexes, Interpretation of low-frequency vibrations, H-bond induced vibrational energy relaxation, TOF mass spectrometric determination, IR spectroscopic and atmospheric modeling studies of photo-oxidation and photoisomerization reactions.
- Development of Beyond Born-Oppenheimer Theories, Molecule-Surface Scattering, Theoretical State-to-State Reaction Dynamics, Selective bond dissociation by optimized laser pulse field
- Molecular mechanism of DNA damage and repair in cancer
- Theoretical Biophysical Chemistry: Folding, unfolding, hydration and motor dynamics.

Polymer Science Unit

- Polythiophene graft polyampholyte exhibits reversible fluorescence on and off response in both acidic and basic medium with the sequential addition of differently charged ionic surfactants, repeatedly.
- A hybrid hydrogel based on folic acid, polyaniline and AgNPs exhibit good supercapacitor property (Sp. Capacitance 646 F/g) and highly enhanced photocurrent.
- Graphene oxide graft, poly(ϵ -caprolactone) - block - poly(dimethyl aminoethyl methacrylate) exhibit pH and temperature dependent doping of graphene.
- A dye-sensitized solar cells fabricated with composite of polyaniline and cadmium sulfide nanoparticles and N719 dye exhibit highest power conversion efficiency of 4.32 %.

Solid State Physics

- Charge carrier dynamics in ion conducting glasses, polymers and oxides is studied and correlated with characteristic lengths and population density of structural units.
- Organic electronics, Solar cells based on hybrid perovskites and inorganic semiconductors, Scanning Tunneling Spectroscopy of 2D transition metal dichalogenides and topological insulators, Spintronics.
- Electronic structure of low dimensional quantum spin systems; Role of spin-orbit coupling in strongly correlated systems; Multiferroics; Electronic structure of coupled quantum dots and doped nanowires.
- Magnetic, electric transport, and dielectric properties of bulk and nanostructured materials.
- Optical and optoelectronic properties of II-VI semiconducting thin films and nanostructures.
- Magneto-structural instability in transition metal based solids including ferromagnetic shape memory alloys and multiferroic oxides. Ground state magnetic properties of transition metal oxides with novel low dimensional crystal structure and geometrically frustrated systems.
- Study of cell biology and statistical mechanics. Agent based modeling, Monte Carlo methods and molecular dynamics to quantify various biological processes, such as, cell division, intracellular transport and organization of cellular objects. Study of phase transition, domain coarsening in disordered materials using statistical mechanics.

Raman Centre for Atomic, Molecular and Optical Sciences

- Theoretical study of ultracold atomic photoassociative processes.
- Theoretical study of atom-atom interaction in external fields.
- Development and implementation of highly accurate spin-free robust non-perturbative coupled cluster electronic structure methods for balanced treatment of dynamic and non-dynamic electron correlation.
- Development of size extensive and size-consistent multi-reference perturbative techniques.
- Theoretical formulation of analytic gradient based techniques for molecular magnetic properties within non-relativistic and non-relativistic framework.
- Quantum chemical discovery of new strategies for hydrogen storage.
- Understanding photoredox processes leading to generation of solvated electrons using many-body and density functional methods.
- Computational exploration of strategies for N₂ activation and conversion to NH₃.
- Unveiling molecular details for fast-oligo/polymerization processes.

Spectroscopy

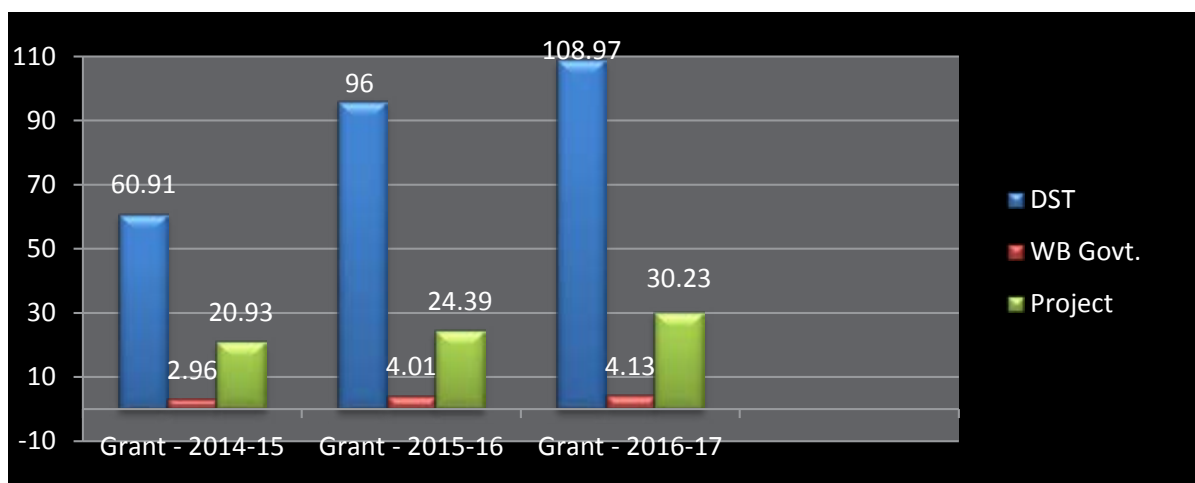
- Development of methodology to study van der Waals complexes.
- Reaction mechanism to detoxify model Nerve agents on surface.
- Chemical hydrogen storage materials.
- Chemical vapor deposition (CVD) from single source precursor.
- Catalytic CO oxidation on oxide clusters.
- Controlling agostic phenomena by substitution and orientation
- Structure and reactivity of metallofullerens (EMFs)
- Binding interaction of metal ions with artificial amino acids
- Computation of TeraHertz spectra of molecular Solids.
- Quantum Mechanical Tunneling in Chemical reactions.
- Organo Gold Catalysis.
- Designing Materials for Singlet Fission.
- Modelling Two dimensional materials like Silicene and Phosphorene.
- Computation on Graphite and Carbon nanomaterials.
- Unnatural DNA Bases – Quantum Chemistry and Classical Molecular Dynamics.
- Surface spectroscopy of soft interfaces
- Protein folding using the IR spectroscopy technique
- Lipophilic interaction
- Role of fluorine in biology

Theoretical Physics

- **Fields, Strings, Gravity, Cosmology and Mathematical Physics:** Diphoton signal at the LHC via Chern-Simons interaction in a warped geometry scenario. Kinematics of radion field: a possible source of dark matter. Spherically symmetric brane in a bulk of $f(R)$ and Gauss-Bonnet Gravity. Solving

higher curvature gravity theories. Lightest Kaluza-Klein graviton mode in a back-reacted Randall-Sundrum scenario. Graviton Kaluza-Klein modes in nonflat branes with stabilized modulus. Higher rank antisymmetric tensor fields in Klebanov-Strassler geometry. Penrose process in a charged axion-dilaton coupled black hole. Aspects of Radon transform in Quantum field theories.

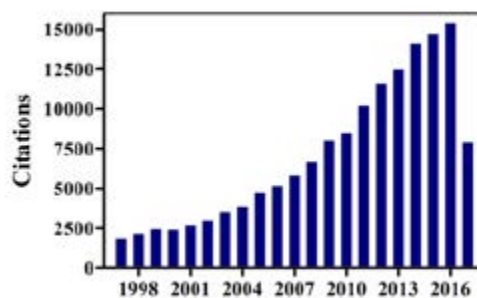
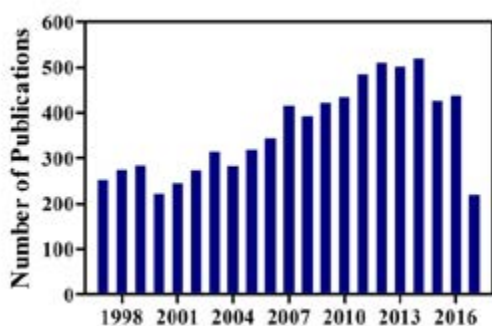
- **Particle Physics Phenomenology:** Light higgsino or wino dark matter in a compressed scenario of MSSM. Exploring viable vacua of the Z_3 -symmetric NMSSM. Probing non-holomorphic MSSM via precision constraints, dark matter and LHC data. Status of the 98-125 GeV Higgs bosons scenario with updated LHC-8 data. Generation of radiative neutrino mass in the linear seesaw framework, charged lepton flavor violation and dark matter. R-parity violating supersymmetry at IceCube. Study of the Littlest Higgs model with T-parity in the one lepton plus jets plus missing transverse energy channel at the LHC.
- **Lattice Gauge Theory & Mathematical Physics:** Lattice QCD simulations at zero and finite temperatures, both with and without dynamical fermions. Computing glueball correlators and implementing a new algorithm for two flavors of staggered quarks to run on GPUs.
- **Condensed Matter and Statistical Physics:** Several aspects of physics of strong correlations and dynamics in ultracold atom and condensed matter systems. Aspects of quantum many body theories, e.g., non-equilibrium dynamics of quantum many-body systems under external drive, signature of quantum phase transition in highly excited state, open quantum systems and more. Frustrated magnets and spin liquids. Unconventional phase transitions. Entanglement properties of many-body systems. Numerical many-body physics.
- **Biological Physics/Computational Biology:** Decrypting Encoded epigenetic marks of human tRN-A-RS genes in normal, stem and cancer cell lines, tRN-A-RS act as biomarker in cancer and other diseases



Budget in 2016-17 : DST – 108.97 crores; WB Government – 4.13 crores

Web of Science

Citation Report (On 19th July, 2017)



Result found 1983-2017

No. of Publications	:	9939
H Index	:	115
Sum of the times cited	:	158271
Average citations per item	:	15.92
Average citations per year	:	4522.03

Performance during the year (2016-17)

Publication	:	444
Average Impact Factor	:	4.4
Ph.D. Degree Awarded	:	58
Patent Awarded	:	04
Patent Filed	:	14

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

BUDGET AT A GLANCE

EXPENDITURE	Provisional Expenditure (Unaudited) 2016-2017			Projected Budget 2016-17 as approved by F.C. Dt-28/08/2015			
	Non Plan	Plan	Total	Non Plan	Plan	Total	
ESTABLISHMENT Salary, Fellowship, Pension, Superannuation, etc	-	5,249.89	5,249.89	-	6,308.53	6,308.53	
ESTABLISHMENT Other essential Establishment expenditure (electricity,telephone,medical etc.)		808.11	808.11	-	1,150.60	1150.60	
CONTINGENCIES (Office Expenses)	-	244.67	244.67	-	579.17	579.17	
CONSUMABLES (Laboratory Expenses, Library, Workshop, Research Publication, Civil Maintenance,etc.)	112.01	396.55	508.56	207.00	1,199.00	1,406.00	
TOTAL	112.01	6,699.22	6,811.23	207.00	9,237.30	9,444.30	
Books & Journals		122.98	122.98		270.00	270.00	
Equipment & Research Facilities (including AMC for High Value Equipment)		303.38	303.38		850.00	850.00	
Building (Works with CPWD and Development of Present campus)		759.05	759.05		100.00	100.00	
Electrical augmentation ,etc.		100.00	100.00		175.00	175.00	
Implementation of Open Access Publication					510.00	510.00	
Office Computerisation,Software/ Digitisation of Old Record		112.03	112.03		100.00	100.00	
Installation of Safety Measures		70.00	70.00		100.00	100.00	
Science Outreach		19.00	19.00		300.00	300.00	
Payment of Margin Money		773.47	773.47				
Development of Baruipur Campus		860.00	860.00				
Solar Panel at present Campus		5.00	5.00				
GRAND TOTAL	112.01	9,824.13	9,936.14	207.00	11,642.30	11,849.30	
RECEIPTS (Expected figures for 2016-17 & 2017-18)	Provisional Receipt (Unaudited) 2016-2017			PROJECTED BUDGET 2017 -18			
	Non-Plan (A)	Plan (B)	Total (A+B)	Non-Plan (A)	Plan (B)	Total (A+B)	
Opening Balance		41.74	41.74				
Government of India	50.00	10847.00	10897.00	157.00	12445.83	12602.83	
Government of West Bengal	62.01	366.00	428.01	50.00	450.00	500.00	
Interest from Deposits		87.94	87.94				
Less: Closing Balance		1518.55	1518.55				
TOTAL	112.01	9824.13	9936.14	207.00	12895.83	13102.83	

Note:

1. IACS own generated Income of (Rs.73.70 Lakh + IJP 31.11 lakh)=104.81(Approx) (including hostel seatRent Of Rs.30.91 Lakhs) not reflected in the above Budget.
2. Loan from IACS Superannuation Fund A/C being shown as Loan in our Final Accounts from the financial year 2012-13 Rs.8.60Cr has been refunded on receipt of the same from DST in 2016-17
3. Salary and Pension has been considered in the framework of 6th CPC
4. Comitted Expenditure for 2016 - 17 i.e open Purchase Orders will be Rs. 70.00 Lakhs approximately.
5. Incidental Charges for Purchase made during the year may be Rs. 30.00 Lakhs approximately.

Projected Budget 2017-18 as approved by F.C. Dt-01/07/2016			Projected Revised Budget 2017-2018			Projected Budget 2018-2019		
Non Plan	Plan	Total	Non Plan	Plan	Total	Non Plan	Plan	Total
-	7,947.80	7,947.80	-	6,764.14	6764.14	-	8,116.81	8,116.81
-	1,205.65	1,205.65	-	1030.93	1030.93	-	1,237.11	1,237.11
	642.10	642.10	-	491.91	491.91	-	590.29	590.29
207.00	990.75	1,197.75	180.00	826.15	1006.15	200.00	991.31	1,191.31
207.00	10,786.31	10993.31	180.00	9,113.13	9,293.13	200.00	10,935.54	11135.54
	270.00	270.00		250.00	250.00		300.00	300.00
	850.00	850.00		900.00	900.00		900.00	900.00
	500.00	500.00		712.00	712.00		500.00	500.00
	175.00	175.00		168.00	168.00		175.00	175.00
	510.00	510.00		300.00	300.00		510.00	510.00
	300.00	300.00		250.00	250.00		300.00	300.00
	100.00	100.00		100.00	100.00		100.00	100.00
	300.00	300.00		100.00	100.00		300.00	300.00
	2,000.00	2,000.00			-			-
	100.00	100.00		200.00	200.00		100.00	100.00
207.00	15,891.31	16,098.31	180.00	12,093.13	12,273.13	200.00	14,120.54	14,320.54
PROJECTED REVISED BUDGET 2017-2018			PROJECTED BUDGET 2018-2019 (Provisional)					
Non-Plan (A)	Plan (B)	Total (A+B)	Non-Plan (A)	Plan (B)	Total (A+B)			
135.00	11743.13	11878.13	150.00	13770.54	13920.54			
45.00	350.00	395.00	50.00	350.00	400.00			
180.00	12093.13	12273.13	200.00	14120.54	14320.54			

Sd / S. N. Moulik
Acting Registrar
IACS, Jadavpur
Kolkata – 700032

Sd/ K. Sharma
For K. Sharma & Co.
Chartered Accountants

Sd/ S. Bhattacharya
Director, IACS
Jadavpur, Kolkata – 700 032

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

BALANCE SHEET AS AT MARCH 31, 2017

(Amount in Rupees)

CORPUS/CAPITAL FUND AND LIABILITIES	Schedule	Current Year	Previous Year
Corpus/Capital Fund	1	1,37,46,13,387.00	1,01,95,97,896.00
Reserves and Surplus	2	34,27,61,829.00	34,58,31,843.00
Earmarked/ Endowment Fund	3	35,87,10,212.00	40,56,39,178.00
Secured Loans and Borrowings	4	0	0
Unsecured Loans and Borrowings	5	0	0
Deferred Credit Liabilities	6	0	0
Current Liabilities and Provisions	7	10,23,34,537.00	10,18,47,674.00
Total		2,17,84,19,965.00	1,87,29,16,591.00
ASSETS			
Fixed Assets at written down value	8	1,39,02,81,992.00	1,31,97,34,679.00
Investments - For Earmarked/Endowment Fund	9	1,13,400.00	1,13,400.00
Investments - Others	10		-
Current Assets, loans, Advances etc.	11	78,80,24,573.00	55,30,68,512.00
Miscellaneous Expenditure (to the extent not written off or adjusted)			
Total		2,17,84,19,965.00	1,87,29,16,591.00
Significant Accounting Policies Note. 1			
Schedule 1 to 23 forming Part of Accounts		-	
As per our attached report of even date.			

For, **K. Sharma & Co.**
Chartered Accountants
FRN No. 304025E

A. K. Chakraborty
Partner
Membership No. 014590

Sd / S. N. Moulik
Acting Registrar
IACS, Jadavpur
Kolkata – 700032

Sd/ S. Bhattacharya
Director, IACS
Jadavpur, Kolkata – 700 032

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED MARCH 31 2017

(Amount in Rupees)

INCOME	Schedule	Current Year	Previous year
Income from Sales/Services	12	20,63,791.00	14,71,566.00
Grants/Subsidies	13	71,57,76,441.00	69,53,56,000.00
Fees/Subscriptions	14	1,96,335.00	67,900.00
Income from investments (Income on Investment from earmarked/endowment Funds transferred to Funds	15	30,99,623.00	35,37,040.00
Income from Royalty, Publication etc.	16	32,71,569.00	32,56,693.00
Interest Earned	17	94,75,553.00	99,39,239.00
Other Income	18	12,79,157.00	24,06,051.00
Increase/decrease in stock of finished goods and work-in-progress	19	-	-
Overhead Money recived from Project		18,22,736.00	48,46,030.00
Total (A)		73,69,85,205.00	72,08,80,519.00
EXPENDITURE			
Establishment Expenses	20	52,36,10,557.00	52,86,65,429.00
Other Administrative Expenses etc.	21	14,14,72,735.00	13,94,58,200.00
Expenditure on Grants, Subsidies	22	88,470.00	1,97,094.00
Consumables		3,02,61,236.00	1,68,47,335.00
Prior Period Expenses			
Annual Maintenance Expenses		1,37,56,136.00	46,08,013.00
Depreciation (Net total at the Year end-corresponding to Sch.8)		9,30,07,232.00	
Overhead Money transferred to IACS Overhead A/C as per Sch 3		-	48,46,030.00
Total (B)		80,21,96,366.00	69,46,22,101.00
Balance being excess of Income over Expenditure (A -B)		(6,52,11,161.00)	2,62,58,418.00
Transfer to Special Reserve (Specify)			
Transfer to/from General Reserve			
Balance being Surplus (Deficit) Carried to Corpus/Capital Fund		(6,52,11,161.00)	2,62,58,418.00
Significant Accounting Policies Note 1.			
Schedule 1 to 23 forming part of Accounts.			
As per our attached report of even date.			

For, **K. Sharma & Co.**
Chartered Accountants
FRN No. 304025E

A. K. Chakraborty
Partner
Membership No. 014590

Sd / S. N. Moulik
Acting Registrar
IACS, Jadavpur
Kolkata – 700032

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Director, IACS
Jadavpur, Kolkata – 700 032

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED MARCH 31, 2017

(Amount in Rupees)

Receipts	Current Year	Payments	Current Year
Opening Balances		Expenses	
1. Bank Balances :		a) Establishment Expenses	
With Scheduled Banks :		(corresponding to Schedule-20)	52,36,10,557.00
a) General :		b) Administrative Expenses	
Current Account with :		(corresponding to Schedule-21)	12,15,42,538.00
SBI, Jadavpur Univ.	6,51,017.00	c) AMC for Laboratories - Gneral	1,28,52,853.00
SBI, Kolkata Main	4,33,427.00	d) Consummables - General	3,01,73,312.00
SBI, Jadavpur Univ. Flexi A/c			
Union Bank Ballygunge Br.		e) Revenue Expenses on A/C of Project	18,43,57,155.00
Union Bank Main Branch	45,440.00	f) Revenue Expenses on A/C of TRC	36,00,650.00
b) Project Fund :		Payments made against fund for various projects	
Current Account with:		Expenses incurred for Spl. End. Fund - IACS	88,470.00
		Investments and deposits made	
SBI, Jadavpur Univ.	3,75,280.00	Out of earmarked/Endowment funds	
		Others (to be specified)	
Cheques in hand		TDR with SBI -(Fixed Deposit with Bank)	
c) Union Bank - Ballygunge Br.	10,01,45,082.00		
c) TRC A/C			
Union Bank of India	23,92,00,000.00		
2. Cash Balances :			
a) General :		Out of Own funds(Investments-Others)	
Imprest Cash	11,65,000.00	TDR with Union Bank	
Cash in hand		Income Tax Receivable A/C TRC	20,82,383.00
Total of P/01	34,20,15,246.00	Total of P/01	87,83,07,918.00
B/F P/01	34,20,15,246.00	B/F P/01	87,83,07,918.00
Grants Received		Expenditure on Fixed Assets & Capital Work-in-progress	
1. Central Government - Plan	1,03,22,00,000.00	Purchase of Fixed Assets	8,66,24,559.00
Non - Plan	50,00,000.00	Expenditure on Capital Work-in-progress	
		Capital Expenditure A/C Project	6,73,84,196.00
2. State Government - Plan	3,66,00,000.00		
Non - Plan	62,01,000.00	Refund of surplus money/Loan	
Grant rec. on a/c of Project	24,14,93,020.00	To the Government of India	
		To the State Government	
		To other providers of funds	
		Infrastructure A/C TRC (Deposit with CPWD)	5,01,72,510.00
		Equipment A/C TRC	9,86,654.00
Interest Received:			
		Amount Borrowed	
General A/Cs		Term Deposit	
Interest on TDR (Project)	38,86,064.00	Any other receipts	
Interest on House Building	10,91,397.00	General A/Cs (Loans and Advances)	
Interest on Research Endowment Fund	9,482.00	Advance - General	1,94,56,406.00
Interest on Vehicle Advance	16,431.00	Advance - LTC	15,83,704.00
Interest on TDR against Margin Money	15,27,049.00	Advance - A/C TRC	10,06,675.00
Interest on Computer Advance	44,264.00	Advance - Vehicles	2,04,000.00
Interest on Security Deposit (CESC)		Advance - Computer	90,000.00
Interest on TDR on Short Term Deposit	67,96,412.00	Advance - Puja	16,10,000.00
Interest on Term Depoist - A/C TRC	1,25,31,373.00		
Other Income: Income from Sales and Services			

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED MARCH 31, 2017

(Amount in Rupees)

Receipts	Current Year	Payments	Current Year
General A/Cs		Advance - House Building	-
Analytical Charges	16,03,871.00	Accounts Receivable	12,96,92,616.00
Sale of Liquid Nitrogen	1,30,900.00	Contribution to GSLI	2,35,022.00
Photo Copy Charges	12,721.00	Security Deposit by IACS	-
Miscellaneous Receipts	12,79,157.00	TDR with Union Bank	87,89,00,000.00
Ordinary Membership Subscription		TDR with SBI	7,34,00,000.00
Income from TDS Refund		Margin Money A/C TRC	11,27,38,840.00
Creche Receipts	50,700.00	Margin Money	7,96,46,983.00
Rent for Guest House	2,65,599.00	Income Tax Receivable (TDS on A/C of S&T Consultancy)	
		Advance - Project	55,91,007.00
Overhead from Project	18,22,736.00	TDR - Project	7,92,00,000.00
Hostel Seat Rent	30,90,141.00	Margin Money (Project)	7,20,53,367.00
Publication Income - IJP	28,43,967.00	Unclaimed GPF	41,957.00
Income from Scientific & Technical Consultancy	40,590.00		
Analytical Charges - Project		Advance A/c CPWD	8,00,00,000.00
Total of P/02	1,70,05,52,120.00	Total of P/02	2,61,89,26,414.00
B/F P/02	1,70,05,52,120.00	B/F P/02	2,61,89,26,414.00
Amount Borrowed		General A/Cs (Current Liabilities)	
Term Deposit (SBI)	7,34,00,000.00	Caution Money- Int.Ph.d.	45,000.00
Any other receipts		Earnest Money	10,72,130.00
General A/Cs (Loans and Advances)		Security Deposit from Contractors	57,04,657.00
Advance - General	1,84,66,200.00	Security Deposit A/C Project	50,000.00
Advance - LTC	16,58,737.00	Earnest Money A/C TRC	6,600.00
Advance - Medical		General A/Cs (Other Liabilities)	
Advance - Vehicles	1,14,306.00	Genreal Fund	1,44,30,86,782.00
Advance - Computer	1,42,834.00	House Building Loan from Union Bank	38,63,274.00
Advance - Puja	18,86,000.00	Income Tax Deducted from Salary	3,71,66,341.00
Advance - House Building	18,06,633.00	Income Tax Deducted U/S 194C	13,19,373.00
Accounts payable	12,88,12,858.00	Income Tax Deducted U/S 194J	21,54,810.00
Contribution to GSLI	2,35,287.00	Income Tax Deducted U/S 194A	42,679.00
Security Deposit by IACS		Insurance Premium under SS Scheme	35,35,761.00
TDR with Union Bank	83,87,30,000.00	Professional Taxes	6,59,160.00
Unallocated Receipts - Project	7,22,00,000.00	SAE Co-operative Credit Society	1,32,71,056.00
Imprest Cash		SAE Benefit Society	28,890.00
Margin Money	3,34,43,796.00	SAE Provident Fund	4,51,24,668.00
Performance Security Deposit - Project	6,50,000.00	Sales Tax deducted from Contractors	8,07,715.00
Advance - Project	43,40,068.00	Labour Welfare Cess	96,519.00
TDR - Project	10,41,00,000.00	Attachment of pay	1,200.00
Margin Money (Project)	4,40,76,047.00	Service Tax	13,46,422.00
Contribution to GSLI - Project	315.00	Inteerest on TDS	
Hostel Seat Rent - Project	29,57,641.00	Outstanding Liabilities	1,15,903.00
General A/Cs (Current Liabilities)		Hostel Seat Rent - Project	29,89,141.00
Caution Money- Int.Ph.d.	96,000.00	Income Tax (Project)	4,78,991.00
Earnest Money	7,89,973.00	Contribution to GSLI -Project	315.00
Security Deposit from Contractors	20,38,663.00	Unallocated Payments - Project	14,50,383.00
Unclaimed GPF	-	CMS (Project)	3,05,200.00
		Loan Refund to Superannuation Fund	8,60,00,000.00
Total of P/03	3,03,04,97,478.00	Total of P/03	4,26,96,49,384.00
B/F P/03	3,03,04,97,478.00	B/F P/03	4,26,96,49,384.00
General A/Cs (Other Liabilities)		Closing Balances	
Genreal Fund	1,44,27,02,811.00	1. Bank Balances :	
House Building Loan from Union Bank	38,63,274.00	With Scheduled Banks :	

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED MARCH 31, 2017

(Amount in Rupees)

Receipts	Current Year	Payments	Current Year
Income Tax Deducted from Salary	3,71,66,341.00	a) General :	
Income Tax Deducted U/S 194C	10,33,887.00	Current Account with:	
Income Tax Deducted U/S 194J	19,99,370.00	SBI, Jadavpur University Br.	16,50,185.00
Income Tax Deducted U/S 194A	42,679.00	SBI, Main Branch	4,33,427.00
Insurance Premium under SS Scheme	35,35,983.00	Union Bank, Ballygunge Branch	
Professional Taxes	6,58,730.00	Union Bank, Main Branch	8,58,11,483.00
SAE Co-operative Credit Society	1,32,71,056.00	SBI - Flexi A/C	
SAE Benefit Society	28,890.00	b) Project Funds:	
SAE Provident Fund	4,51,24,668.00	SBI, Jadavpur University Branch	65,23,051.00
Sales Tax deducted from Contractors	6,64,885.00	SBI, Main Branch	
Labour Welfare Cess	1,67,600.00	Union Bank, Ballygunge Branch	15,46,25,046.00
Attachment of pay	1,200.00	c) TRC A/C	
Service Tax	4,15,760.00	Union Bank Ballygunge	8,11,53,673.00
Securidity Deposit A/C TRC	17,251.00	Grant Receivable from Govt. of W.B	-
Income Tax Receivable	70,080.00	Accrued Income from Publication	
CMS (TRC)	500.00	2. Cash Balances :	
Income Tax U/s 194C (TRC)	11,961.00	a) General :	
Sales Tax deducted from Contractors A/C TRC	5,175.00	Imprest Cash	5,60,000.00
Outstanding Liabilities		Cash in hand	
Income Tax (Project)	4,79,235.00	Imprest Cash TRC	20,000.00
Labour Welfare Cess A/C TRC	1,725.00		
CMS (Project)	3,05,100.00	3. Bank Balance - General (O/D)	
3. Bank Balance - General (O/D)		Union Bank Ballygunge (Opening) 2016 -17	4,12,44,998.00
Union Bank Ballygunge (Closing) 2016 -17	5,96,05,608.00		
Total	4,64,16,71,247.00	Total	4,64,16,71,247.00
Schedule 1 to 23 forming part of Accounts As per our attached report of even date.			

Sd / S. N. Moulik

Acting Registrar

IACS, Jadavpur

Kolkata – 700032

Sd/ K. Sharma

For K. Sharma & Co.

Chartered Accountants

Sd/ S. Bhattacharya

Director, IACS

Jadavpur, Kolkata – 700 032

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

Fixed Asset Schedule as at March 31st, 2017

P- 07

SCHEDULE 8 - FIXED ASSETS

		GROSS BLOCK				DEPRECIATION		(Amount in Rupees)	
		Balance as on 01.04.2016	Addition during the year	Deduction during the year	Total	Depreciation as on 01.04.15	Depreciation for the year	Total Depreciation	NET BLOCK as on 31.03.2016
1	LAND (Jadavpur)	31,55,11,000		-	31,55,11,000	-	-	-	31,55,11,000
2	LAND (Baruipur)	32,42,45,000		-	32,42,45,000	-	-	-	32,42,45,000
3	Software - Oracle	1,27,99,498	1,16,14,061		2,44,13,559	76,40,583	65,79,567	1,42,20,150	1,01,93,409
4	BUILDING & SHEDS	30,08,98,632	35,89,429		30,44,88,061	16,18,58,101	1,40,83,525	17,59,41,626	12,85,46,435
5	RESIDENTIAL BUILDING	17,34,000	-		17,34,000	6,95,791	51,910	7,47,701	9,86,299
6	PLANT & MACHINERY	62,54,34,777	4,31,03,731		66,85,38,508	41,61,04,517	3,46,32,319	45,07,36,836	21,78,01,672
7	COMPUTERS	10,95,73,922	75,80,405		11,71,54,327	9,85,76,349	88,72,665	10,74,49,014	97,05,313
8	ELECTRICAL INSTALLATION	8,02,72,889	26,99,198		8,29,72,087	4,27,88,288	58,25,130	4,86,13,418	3,43,58,669
9	VEHICLES	17,65,008	23,04,967		40,69,975	14,17,019	2,25,071	16,42,090	24,27,885
10	TUBEWELL & W. SUPPLY	31,48,265	8,68,761		40,17,026	15,33,229	2,04,942	17,38,171	22,78,855
11	Capital Work in Progress - CPWD	3,00,00,000	8,00,00,000		11,00,00,000				11,00,00,000
	Sub Total	1,80,53,82,991	15,17,60,552	-	1,95,71,43,543	73,06,13,877	7,04,75,129	80,10,89,006	1,15,60,54,537
12	FURNITURE & FIXTURE (Incl. other Furniture & Fixture)	2,87,43,217	8,58,488		2,96,01,705	1,36,67,725	15,50,474	1,52,18,199	1,43,83,506
13	OFFICE EQUIPMENT	1,77,24,463	17,36,257		1,94,60,720	1,13,45,391	10,87,080	1,24,32,471	70,28,249
	Sub Total	4,64,67,680	25,94,745	-	4,90,62,425	2,50,13,116	26,37,554	2,76,50,670	2,14,11,755
14	BOOKS	49,74,26,839	1,22,69,262		50,96,96,101	27,39,15,838	2,29,64,563	29,68,80,401	21,28,15,700
	Cumulative Sub Total	2,34,92,77,510	16,66,24,559		2,51,59,02,069	1,02,95,42,831	9,60,77,246	1,12,56,20,077	1,39,02,81,992
	TOTAL	2,34,92,77,510	16,66,24,559	-	2,51,59,02,069	1,02,95,42,831	9,60,77,246	1,12,56,20,077	1,39,02,81,992
	Previous Year	1,94,16,73,452	40,76,04,058		2,03,37,66,510	93,25,93,242	9,69,49,589	1,02,95,42,831	1,31,97,34,679

Note:

- a) On the basis of the decision of the Finance Committee of IACS in its meeting held on 19.06.2007, the updated value of Fixed Assets has been adopted in the Final Accounts of 2006-07
- b) Total amount of Depreciation calculated during the year has been charged to Income & Expenditure A/C Rs. 9,30,07,232.00 and Rs. 30,70,014.00 against Revaluation Reserve
- c) Depreciation other than Books has been charged at the rate as provided by the Income Tax Act, Depreciation on books has been charged @ 10% p.a.

Sd / S. N. Moulik
Acting Registrar
IACS, Jadavpur
Kolkata – 700032

Sd/ K. Sharma
For K. Sharma & Co.
Chartered Accountants

Sd/ S. Bhattacharya
Director, IACS
Jadavpur, Kolkata – 700 032

K. SHARMA & CO.
CHARTERED ACCOUNTANTS

1/B, Old Post Office Street, Room No – 8, (First Floor),
Kolkata – 700001, Phone: 2248-7902,
E-mail: kks67@vsnl.net

INDEPENDENT AUDITORS' REPORT

To
The Management of
Indian Association for the Cultivation of Science

1. As per further amendment of Annual Accounts of IACS, we report on the Financial Statements

We have audited the accompanying financial statements of INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE (IACS), which comprise the Balance Sheet as at March 31st, 2017 and the Income & Expenditure Account and Receipts & Payments Accounts for the year ended, and a summary of other explanatory notes and information.

2. Management's Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance of the Institute in accordance with the generally accepted accounting practices followed in India. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatements, whether due to fraud or error.

3. Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conduct our audit in accordance with the standards in Auditing issued by the Institute of Chartered Accountants of India. Those standards require that we comply with the ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments the auditor considers internal control relevant to the Association's preparation and fair representation to the financial statements in order to design audit procedures and are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by the management as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis of our audit opinion.

4. Opinion

- 1) The IACS charged depreciation directly to the Schedule 1 - Corpus/Capital Fund instead of charging it to Income and Expenditure Account. Now the IACS accepted the observations raised by us and charged depreciation to Income and Expenditure Account on the basis of the decision taken by the Finance Committee of IACS meeting held on 15th September, 2017.
- 2) Fixed Assets Register has been updated till 31.03.17 and physical verification of fixed assets was done periodically.
- 3) There is a system of pre-audit of all expenses made by the Association. However there is a scope for improvement of the Internal Control Procedures, for better compliance with the Annual Budget.
- 4) Deficit for the year Rs.6,52,11,161.
- 5) A sum of Rs 8,60,00,000 was earlier shown as 'Loan from Superannuation Fund' under Current Liabilities which remained outstanding for more than 3 years, causing loss of Interest to the employees' benevolent fund. During the course of audit for the year 2016-17, it was observed that the above loan had been refunded to IACS Superannuation fund through voucher dated 31.03.17. The amount receivable as on 31.03.17 by the Superannuation Fund has been shown as "Amount in transit" of ₹8,60,00,000.

- 6) Accounts Payable balance as on 31.03.17 includes the following balances which are lying unadjusted/unpaid for more than 2 years:-

Person/Party	Date	Amount (₹)
SEC Conference	Not known	115,015
Sri Manas Ranjan Chakraborty	Not known	8,010
Amar Singh Harijon	26.02.10	7,386
DST (New Delhi)	28.09.11	32,637
DST (New Delhi)	28.09.11	1,25,000
Sanjib Naskar	05.08.14	7,18,152
Indian statistics	12.01.15	51,451

Necessary follow-up action should be taken to arrange for proper payments to the respective parties relating to the above balances.

- 7) Payments made to various grades of employees stated to be as per 6th Pay Commission, which are not in conformity with the scale of pay mentioned in the Bye-Laws of the IACS.
- 8) In case of General Advances, there were instances where advances are pending unadjusted for more than 2 years, which needs to be followed up with the respective parties and adjusted. Some instances are as follows:-

Person/Party	Chq No	Date	Amount (₹)	Department
Smt. Jhimli Mukherjee	600763	17.10.12	37,500	Administration
Dr. Arnab sen	605497	19.11.14	12,000	Theoretical Physics
Prof. Sourav Roy	602494	05.08.13	98,465	Theoretical Physics
Dr. Abhishek Dey	605867	21.01.15	1,50,000	In-organic Chemistry
M/s Chief Controller of Accounts NDLS	D/D	14.03.14	4,82,890	Electrical Section
Dr. Biman Jana	605196	25.09.14	49,083	Physical Chemistry
IABS 2015	605890	29.01.15	1,00,000	Conference
M/s DHL Express (I) Pvt Ltd	605276	29.09.14	32,000	Administration
Sri Tarun Kabasi	457050	14.05.15	8,710	Administration

- 9) In case of Project Accounts, balances in certain heads of accounts pertaining to previous years had remained static in the year 2016-17. Necessary steps may be taken to adjust the above. A few instances are as follows:

Details	Balance (₹)
DST-WOS Quantum...	(1,887.33)
Gases (SD)	
DST-WOS—Develop....	(21,068.00)
Hydrogen(SM)	
Conducting.....	(58,599.00)
Stimulation (Rupali)	

In our opinion and to the best of our information and according to the explanation given to us, the financial statements, together with the notes mentioned above, give a true and fair view in conformity with the accounting principles generally accepted in India.

- In case of the Balance Sheet of the State of Affairs of the INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE as at 31st March, 2017.
- In case of Income & Expenditure Account, Excess of Expenditure over Income for the year ended on that date.
- In case of Receipts and Payments Accounts, of the transactions during the year ended on that date.

For **K. Sharma & Co.**
Chartered Accountants
FRN - 302045E

(**A. K. Chakrabarty**)
Partner

Place: Kolkata
Date: 22.09.17

Membership No.- 014590

REPORT ON OTHER LEGAL AND REGULATORY REQUIREMENTS

As required on the above matters, we report that:

- a) We have sought and obtained all the information and explanation which to the best of our knowledge and belief were necessary for the purpose of our audit.
- b) In our opinion proper books of accounts as required by law have been kept by the Association so far as appears from our examination of those books.
- c) The Balance Sheet and the statement of Income and Expenditure dealt with by this report are in agreement with the books of account.
- d) In our opinion, the aforesaid financial statements comply with the accounting standards.

For **K. Sharma & Co.**
Chartered Accountants
FRN - 302045E

Place: Kolkata
Date: 22.09.17

(A. K. Chakrabarty)
Partner
Membership No.- 014590

NOTE: 1**SIGNIFICANT ACCOUNTING POLICIES, PRACTICE AND CONTROL****A. ACCOUNTING CONVENTION AND CONCEPT:**

The financial statements are prepared under the historical cost convention on accrual basis, excepting retirement benefits, including grants (both recurring and non recurring) from the Government of India and Government of West Bengal.

B. ALLOCATION OF RECEIPTS AND PAYMENTS:

The allocation of Receipts and Payments, Income and Expenditure between plan and non-plan heads have been made by the Association as per Association's budget and practice. Grant from the Government for both Plan & Non-Plan expenditure and Plan & Non-Plan Grant from the Government of West Bengal during the financial year are credited to Income & Expenditure Account, except the Capital grant which has been directly transferred to Corpus Fund.

C. FIXED ASSETS AND CAPITAL WORK IN PROGRESS:

- i) Fixed Assets and Capital work in progress are stated at cost of acquisition or construction less accumulated depreciation. Cost of acquisition is net of interest on capital advance and is inclusive of freight, duties, taxes & other incidental expenses.
- ii) Capital work in progress including building under construction, plant and machinery, equipment pending installation and architect fees are directly debited to the respective assets head.
- iii) Provision for Stamp Duty payable for immovable property is made as and when conveyance, deed for the properties is executed and the liability is ascertained.
- iv) Grant received towards specific fixed asset are adjusted from the Gross Value of the assets or capital work in progress, as the case may be.

D. DEPRECIATION/ AMORTIZATION:

Depreciation on Fixed Assets is provided on "Written Down Value Method" at the rates and in the manner prescribed in the Income Tax Act, 1961. Depreciation on addition of Fixed Assets is considered on half-yearly basis. From this year Depreciation has been charged to the Income and Expenditure Account instead of charging it to Schedule 1-Corpus/Capital Fund Account as per recommendation of the Finance Committee of IACS on meeting held on 15th September, 2017.

E. IMPAIRMENT OF ASSETS:

An asset is treated as impaired when the carrying amount of assets exceed the recoverable value and impairment loss is charged to the Income and Expenditure Account in the year in which an asset is identified as impaired.

F. RETIREMENT BENEFITS:

- i) Gratuity of Employee is accounted for on cash basis based on valuation made by the department as per rules and provisions of Payment of Gratuity Act.
- ii) Leave Salary Payable to Employee is accounted for on cash basis based on valuation made as per extent rules of the Association.

G. SUBSCRIPTION FOR LIBRARY:

Subscription paid for library journals are booked to Library Account at the time of payment irrespective of receipt of the related journal.

H. INCOME FROM GRANTS AND OTHER SERVICES:

Grants received from Governments are accounted for as income of the Association.

a) Recognition of Government Grants:

Government Grants available to the Association are considered for the inclusion in accounts in accordance to AS 12, where:

- i) There is reasonable assurance that the Association will comply with the condition attached to them, and
- ii) Such benefits have been earned by the Association and it is reasonably certain that the ultimate collection will be made.

b) Income from Other Services:

Sales proceeds received consultancy and technical service, fees received and interest incomes are also treated as income of the Association.

I. NOTES ON ACCOUNTS:

- i) The Association grants House Building Loans as per laid down principles against suitable documentation at a prescribed rate of interest. Such interest is payable after repayment of the principal amount.
- ii) Fixed Asset register has been written up to 31.03.17. Physical verification of fixed assets has been carried out periodically.
- iii) No known case of fraud has been there during the year ended on 31.03.17.



**INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
JADAVPUR, KOLKATA 700032**

ANNEXURE V

OUTEACH PROGRAMME FOR THE YEAR 2016-'17 AND BEYOND ARE FURNISHED IN SERIATIM

1. IACS celebrated its Foundation Day on 29th July, 2016 in a befitting manner. A Celebration Committee comprising of faculty, non-faculty and scholars was formed to design and organize the celebration programme involving all sections of people. Local school students were also invited to join the celebration programme and a good number of school students along with their teachers attended the programme. The programme started with Popular Lecture on "Evolution of Science Research & Education in India" by Professor Santanu Bhattacharya, Director, IACS. This was followed by Popular Lecture on "Playing with Salts" by Professor Parthasarathi Dastidar; Demonstration of "chemistry of the Living System" by Dr. Soumi Guha Polley, Lady Brabourne College, Kolkata and Popular Lecture on "Genomics : Enabler of Precision Medicine for Cancer" by Professor Partha Pratim Majumder, Director, NIBMG, Kalyani. There was a Poster Session and a Photograph/Art Exhibition. The programme concluded with Award Giving Ceremony for awarding the Best Poster, the Best Photograph/Art in the exhibition; and also for "Excellence in Service & Support Award" to Non-faculty staff members.
2. Organized visit to some of Chemistry Laboratories by a team of 37 B.Sc. (Chemistry Major) Female Students and 4 Teachers of Handique Girls' College, Guwahati and 14 Female Students, 16 Male Students and 2 Teachers of D.K College, Kamrup, Assam, on 6th January, 2017. The visiting programme included Introductory Lectures, Welcome Address by Professor Santanu Bhattacharya, Director, IACS, and Address by Professor Alok K Mukherjee, Vice President, Management Committee followed by Video Show on IACS. There was Scientific Demonstration and Visit to the following Chemistry Laboratories in Group : MMR Facility, Single Crystal Facility, Glove Box, Workshop - Glass Blowing Section, Liquid Nitrogen, SEM Facility, Raman Spectrometer, Mass Spectrometer, Synthesis Laboratory. Feedback was taken from the participants where they expressed their utmost satisfaction for having opportunity to visit such premier research Institute like IACS.
3. Organized visit of Chemistry Laboratories by a team of 8 M. sc. Female Students and 8 Male Students and 1 Faculty Member of Mizoram University, Aizawl, Mizoram, on 25th January, 2017. After welcoming the students, visit of the Chemistry Laboratories in Group was organized for them. Feedback was obtained from the participants, which indicates that such programme inspires students to pursue higher studies in science in their careers.
4. In pursuance of the directives of the Department of Science and Technology, Government of India, IACS celebrated the National Science Day 2017 in a befitting way. A Committee was formed to oversee organizing the event in two days - 27th and 28th February, 2017 on the theme - "Science and Technology for specially abled persons", as selected by the DST, Government of India for the National Science Day 2017. The celebration programme offered an opportunity for having discussion and interaction focused on a common issue of interest and consolidated suitable actions that might be taken. The programme was inaugurated by Professor Santanu Bhattacharya, Director, IACS, followed by series of

Lectures. The 27th February, 2017, the programme was primarily designed for college students and around 400 students from various Colleges in and around Kolkata, including students from Presidency University and West Bengal State University attended the whole day programme. For 28th February, 2017, the programme was for School Students and around 350 school students in and around Kolkata attended the programme. Students and their accompanying teachers/faculty members were provided with IACS Information Brochure, Stationeries and Caps having IACS Logo and marking "National Science Day 2017". Arrangement for refreshment and working lunch was also there for both the days.

The programme on February 27 included Welcome Address by Professor Santanu Bhattacharya, Director, Lecture on "What is Hyperbolic Geometry" by Professor Mahan Maharaj, TIFR Mummai, Lecture on "Story of Neutrino" by Professor Naba K Mandal, SINP Kolkata, Lecture on "Ganit, Bigyaner Bhasa" (Lecture in Bengali) by Professor Koushik Ray, IACS Kolkata and Laboratory Visits at IACS by College Students.

On February 28, 2017, the programme started with the Welcome Address by Professor Santanu Bhattacharya, Director, followed by Lecture on "Game Theory in Biology and Chemistry" by Professor Anjan Dasgupta, CU Kolkata. Asutosh Mookerjee Best Thesis Award was conferred to Dr. Sayanti Chatterjee. The programme concluded with Live Experimental Demonstrations on Physics by Dr. Bhupati Chakrabarti & Team, on Chemistry by Dr. Arindam Rana and Team and on Biology by Dr. Deepak K Sinha and Dr. Presenjit Sen. The programme was extensively attended by a large number of attendees inside and outside IACS with great enthusiasm.

- 5) IACS celebrated its Foundation Day on 29th July, 2017 in a befitting manner. Since July 29, 2017 fell on Saturday, the celebration programme was organized on 31st July, 2017. A Celebration Committee comprising of faculty, non-faculty and scholars was formed to design and organize the celebration programme involving all sections of people. Local school students were also invited to join the celebration programme and a good number of school students along with their teachers attended the programme. The programme started with a Popular Lecture by Professor Santanu Bhattacharya, Director, IACS. This was followed by Popular Lecture on "Quantum Tunneling : From Solar Fusion and Life to Nanotechnology" by Professor B N Dev, Senior Professor, Materials Science Department, IACS. There was a Feature Film Show on Iswar Chandra Vidyasagar. There was also a Photography/Art Exhibition. After lunch break, in the afternoon session, there was another Popular Lecture on "Our Cosmic Consciousness" by Dr. Devi Prasad Duari, Director, Birla Planetarium followed by a Documentary Film Show on Satyendra Nath Bose, directed by Ms. Shila Datta. The programme concluded with Award Giving Ceremony for awarding Best Photography/Art Exhibition and for "Excellence in Service & Support Award" to non-faculty staff members.
- 6) Organized visit to some of sophisticated laboratories by a team of 12 students of 4th Semester M.Sc. (Biotechnology), Department of Biotechnology & Bioinformatics and a faculty member of Sambalpur University, Odisha on 26th July, 2017. The visiting programme included Registration, Welcome Address by Prof. Somabrata Acharya followed by Video Show on IACS. There was Scientific Demonstration and Visit to the various laboratories.

There was refreshment for visiting students and faculty. Visiting students and faculty member were given a folder containing IACS Flyer, Stationeries and Programme Schedule. Feedback was taken from the participants in which they expressed their utmost satisfaction for having opportunity to visit such premier research Institute in India like IACS.

- 7) Organized visit to some physics laboratories by a team of 13 students of Physics Department alongwith 2 faculty members of Barrackpore Rastraguru Surendranath College on 13th February, 2018. They spent more than four hours at IACS and visited various Physics Laboratories. Prof. Somabrata Acharya co-ordinated the programme. There attendance were taken and they were handed over IACS Flyer, Stationeries and Programme Schedule. There was refreshment session. Feedback was also obtained from the participants which indicates that such programme inspires them to pursue higher studies in science in their careers. On request, students and faculty members were handed over participation certificate also.
- 8) In pursuance of the directives of the Department of Science & Technology, Government of India, IACS celebrated the National Science Day 2018 in a befitting way. An Organizing Committee was formed to oversee, organize the event in two days - 27th and 28th February, 2018 on the theme - "Scientific Issues for the Development of the National", as selected by the DST, Government of India for the National Science Day 2018. The Organizing Committee offered an opportunity for having discussion and interaction focused on a common issue of interest and consolidated suitable actions that might be taken. The Societal Component of IACS was involved in celebration of National Science Day 2018. The programme was inaugurated by Professor Soumitra SenGupta, Acting Director, on both the days followed by series of Lectures. The 27th February, 2018, the programme was primarily designed for college students and around 200 students from various colleges in and around Kolkata attended the whole day programme. Selected laboratories at IACS were also visited by college students in groups. For 28th February, 2018, the programme was for school students and around 180 school students in and around Kolkata attended the programme. There were Live Experimental Demonstration on Chemistry by Dr. Arindam Rana & Team, on Biology by Dr. Deepak Sinha and Dr. Prasenjit Sen and on Physics by Dr. Bhupati Chakrabarti & Team which were the primary attraction for the school students. Students and their accompanying faculty/teachers were provided with IACS Information Brochure, Stationeries and Cap having IACS Logo and marking 'National Science Day 2018'. Arrangement for refreshment and working lunch was also there for both the days.

The programme on February 27, 2018 included Welcome Address by Professor Soumitra SenGupta, Acting Director, Lecture on "Raman Effect" by Professor Tapas Chakraborty, IACS, Lecture on "From Roots to Riches" by Dr. Mitali Chatterjee, PGMER and Laboratory Visits at IACS by college students.

On February 28, 2018 the programme started with the Welcome Address by Professor Soumitra SenGupta, Acting Director, followed by Lectures on "The Allure of Blue" by Professor Sayam Sengupta, IISER Kolkata, and on "Some Mathematical Gems from the Vedic Age" by Professor Amartya Kumar Dutta, ISI Kolkata. Asutosh Mookerjee Best Thesis Award was conferred to Dr. Abhijit Bera on this auspicious occasion. The programme was concluded with Quiz Contest for School Students and IACS scholars were conducted

the Quiz Contest so professionally and students were in rapt attention to chinch prizes through the Contest.

- 9) Organized visit to some Laboratories and Facilities for Class VIII & IX Students of Modern High School for Girls on 20th July, 2018. 41 female students accompanied by 2 teachers visited various laboratories and facilities. The visiting students were provided IACS flyer, stationeries and also refreshment. Professor Tapas Chakraborty, Dean, General Administration, UG Programme, Societal Activity and Outreach, gave an introductory remarks at the inaugural session. Professor T K Paine co-ordinated the visiting programme.
- 10) Organized visit to Physics Laboratories by 11 female PG students and 2 faculty members of Physics Department of Lady Brabour College on 21st August, 2018. Professor Sourav Giri coordinated the visiting programme.
- 11) IACS & Maulana Abul Kalam Azad Institute of Asian Studies (MAKAIAS) in collaboration with B. Watch celebrated 125th Birth Anniversary of Professor P.C. Mahalanobis and organized a One Day Seminar on "Seminal Contribution of Professor P.C. Mahalanobis in Nation Building" on 8th September, 2018 at IACS. The Seminar was formally inaugurated by Professor Soumitra SenGupta, Acting Director, IACS, welcoming dignitaries and participants. Professor Bikas K. Chakraborti, SINP Kolkata, Professor Debasis Sengupta, ISI, Kolkata, Professor Gautam Majumder, JU, Kolkata and Professor Abhijit Chakrabarti, IEST, Shibpur, delivered lectures. Professor Somabrata Acharyya coordinated the programme on behalf of IACS.
- 12) IACS organized Workshop on "Augmenting Writing Skills for Articulating Research" (AWSAR), in collaboration with DST, Government of India and Vigyan Prasar, an autonomous organization of DST, Government of India on 14th September, 2018 at IACS. 109 participants from IACS, neighbouring Institutions and also from Jharkhand and Odisha attended the whole day programme. Professor Abhishek Dey, Chairman, Organizing Committee, played key role in organizing this programme in IACS. Certificate was issued to all the participants in the valedictory session.
- 13) IACS organized One Day Pre India International Science Festival & Expo, being an outreach programme, on 19th September, 2018 under the directive of DST, Government of India. The basic objective of this Public Outreach Program was to cultivate scientific thoughts and ideas amongst the young generation and also to update young school students of X, XI & XII standards about the India International Science Festival [IISF] organized by the Ministry of Science & Technology from 2015 onwards. IISF is the biggest Science, Technology & Industry conclave in India so far.

The Public Outreach Program in IACS on 19th Sept was organized with an objective to enhance the interest of young minds mainly the school students of higher secondary standards towards science and technology and have an interaction with scholars and scientists and also to see the only Nobel Prize winning Institute in science of the country so far. There were altogether 15 schools invited and amongst them 12 schools were participated in the day long program. As per the recommendations of the competent authority mainly the under privileged schools were invited and also to boost the participation of girls as much as possible. Total 220 students were participated along with their teachers.

Professor Santanu Bhattacharya, Director, IACS, welcomed the participating students and gave an enlightened lecture on this oldest premier research organization established in 1876 and

story of its growth and development including the golden period of Professor C V Raman. There were Popular Scientific Lectures by Dr. Pranabes Sanyal [a noted environmentalist and wild life expert] on Tiger Projects in India, Film shows on the IACS, Science Quiz Programme, and designated Laboratory visit of the school students. Not only this, there were video presentations on IISF. Students enjoyed the whole day in an open mind environment along with refreshment and lunch.

- 14) Altogether 43 Female and Male Students accompanied by 7 Teachers of Domkal B. T. High School, Murshidabad, visited IACS on 13th December, 2018. A Day Programme was designed for them from 10.30 a.m. to 5.00 p.m. Professor Soumitra SenGupta, Dean, Faculty and Student Affairs and Staff Matters delivered 1st Popular Lecture on Physics and Professor T K Paine, Co-ordinator, UG and PG Programme, delivered popular lecture on Chemistry. IACS Films Show was also arranged for them. After lunch break, they also visited Glass Blowing Section, LN2 Plant, Low Temperature Building, He4 Liquefier, Chemistry Laboratory, MBE/STM System, Moke/Ebeam/Sputter, XRD_rigaku etc. etc. They were provided IACS Information Brochure, Stationeries etc. etc. Dr. Mintu Mondal, Assistant Professor, SPS, co-ordinated the visiting programme.
- 15) 46 Students of XI Science (Physics Special) and 2 Teachers of Modern High School for Girls visited various laboratories of IACS on 7th January, 2019. Professor Tapas Chakraborty, Dean, General Administration, UG Programme, Societal Activity and Outreach, coordinated the entire programme.

3



INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
JADAVPUR, KOLKATA - 700 032

No. 1.11/600

April 25, 2018

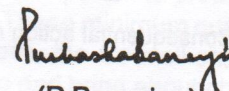
CIRCULAR

To
All Members of the Association

Dear Madam/Sir,

I am directed to inform you that Biometry based attendance system has been introduced in the Main Entrance of IACS (Gate No. 2) for all categories of staff and scholars of the Association. Accordingly, General Body Members and Library Users may be allowed for the time being only on showing their Membership Cards, as applicable. However, they will be provided Access Control Cards in due course of time.

In this context, it may also be noted that the Governing Council of IACS at its 2017-3 meeting held on 16.09.2017 approved the "Code of Conduct" for the General Body Members. An OM No. 1.2/1656 dated 21.12.2017 was issued in this respect. The approved "Code of Conduct" along with the OM referred above has already been posted on the IACS Website : <http://www.iacs.res.in>. A copy of the above referred OM and the approved "Code of Conduct" is forwarded for kind perusal.


(P Banerjee)
Acting Registrar



INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
JADAVPUR, KOLKATA 700032

No.1.2/1656

December 21, 2017

OFFICE MEMORANDUM

Subject : Code of Conduct for the General Body Member

The Governing Council at its 2017-3 meeting held on 16th September, 2017 approved the Code of Conduct for the General Body Members as proposed by the Management Committee. The Code of Conduct approved by the Governing Council is annexed as Annexure-1. The Executive Secretary was advised to circulate the Code of Conduct to the General Body members and make it available online at the IACS website.

It was resolved that the guiding rules as given in the Memorandum and Regulations of IACS have to be followed by the learned members of the General Body. The General Body Members will have to abide by the 'Rules and Regulations of Library', as approved by the Governing Council when they are to use IACS Library. Moreover, the learned members have to maintain the following code of conduct, while they are availing their rights as legitimated by the Governing Council for the General Body members. These are necessary to protect the government property and to ensure security and dignity of the individuals in the Institute.

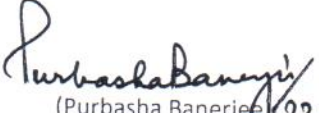
- a) Members intending to attend the General Body meeting should maintain peace and tranquillity during the proceedings of the meeting of this august body.
- b) A Member entering into the premises of IACS for whatever may be the reason, s/he is expected to take care of the property of IACS, since the entire property of IACS is government aided property. Since the authority of IACS has been entrusted with the responsibility of the upkeep of these properties, the Life members must extend their cooperation to the competent authority in this work.
- c) Members cannot use IACS Logo and should not refer IACS for their personal gain. They should not approach to IACS authority to refer their cases elsewhere for submitted scientific papers, posters etc. They also cannot approach for any type of support and service for referring their cases elsewhere.
- d) Members are to submit signed registration forms as made compulsory for all the students, researchers and employees in the Institute; otherwise they will not be allowed to avail institute resources any more.
- e) Any act of damaging property of the Institute, and/or denigrating the reput of the Institute in any manner, and/or any violation of standing rules and regulations and statutory norms including anti-ragging, Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 prevailing in the Institute, will be handled by CCS (CCA) Rules, 1965, as applicable to the regular employees of the Institute. The Disciplinary Authority in such cases will be the Director and the Appellate Authority will be the Chairman of the Governing Council.

Consequential action may be taken accordingly.

Encl. : Annexure – 1.

Copy forwarded for information and necessary action to :

- 1) Director, 2) Dean (Academic & Students' Affairs), 3) Dean (Administration & Finance), 4) Executive Secretary, Management Committee, 5) D-Office, 6) Deans'-Offices, 7) R-Office, 8) Governing Council File.


(Purbasha Banerjee) 22-12-
Acting Registrar



INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
JADAVPUR, KOLKATA 700032

Code of Conduct for Life Members of the Association

Indian Association for the Cultivation of Science (IACS) Kolkata, the oldest fundamental research Institute in Asia Continent, established in Kolkata in the wake of Bengal renaissance in 1876 under the Societies Registration Act 1860 providing leadership in science education and research at the highest level by the native people of India. IACS continues to provide a rich legacy till date having won the country's first and only Nobel Prize in science. Over a period of fourteen decades, thousands of scholars have performed research in this institution with high level of creativity. IACS today is a leading institution known globally for research in various facets of fundamental science. Being a Society under the Societies Registration Act, IACS is an august body of members, the greatest asset of a learned society. .

In its journey to excel its scientific education and research, IACS was favoured for the 1st time by the then colonial British Government with yearly grant sometimes from 3rd decade of twentieth century. Moreover, after independence, IACS has been brought after on the public fund and its assets and property are being acquired and maintained primarily from the fund provided by the Government of India. Presently the Government of India provides more than 90% funds and for thus financial rules and regulations of the Government of India is the guiding principle for spending each rupee of fund. The IACS Library is rich in its volume in the domain of science and it is regularly enriched with books, periodicals with online access to almost all scientific journals and periodicals. National Knowledge Resource Consortium (NKRC), a consortium of DST, GoI and CSIR Laboratories also provides funds to IACS Library and for thus it is solely a national property. Since Association have come a long way in its journey with the public funds for its well being, Association is in the process of framing of 'Library Rules and Regulations' to be followed by its staff, scholars and general body members also for the noble cause of maintaining and protecting of precious public asset.

The objective of the Society, as illustrated in its Memorandum of IACS are :-

- (1) To cultivate science in all its departments both with a view to its advancement by original research and to its varied applications to the arts and comforts of life.
- (2) To found, equip and maintain scientific laboratories and library or reading room for general use among the members or the students of the Association.
- (3) To establish and maintain collections of Natural History, Mechanical, scientific and philosophical inventions, instruments or designs.

- (4) To take all proper and necessary steps for diffusion and cultivation of science in all departments.

Regarding Association's Membership and Fellowship, the Regulations of IACS state as follows :-

All persons of whatever origin or nationality would be eligible to become Members and Fellows, subject to approval of the Governing Council of the Association. The Council will be competent to prescribe minimum qualifications for persons intending to become members and fellows. These minimum qualifications would however not affect the existing members. Notwithstanding the above, the Council shall also be empowered to revise and reassess membership status at any point of time and bring about changes if it feels necessary.

Rights and Privileges of Members and Fellows as per Regulations of IACS

1. The members and fellows of the Association shall have the right to attend all the meetings of the Association.
2. They would be eligible for and participate election to the Management Committee.
3. They would have reading access to the library and archives of the Association. However, they would be subject to the rules of the library or archive that be prevalent from time to time.
4. They would be eligible to participate in lectures and receive selected publications of the Association.
5. A member or fellow of the Association would abstain from voting on matters for which he or she might be a beneficiary and shall not be elected or nominated to the Council/Management except under special circumstances.

Removal of Members as per Regulations of IACS

The Council may consider removal of members of the Association under the following cases:-

1. A member who fails to give the subscription even after reminder by the Executive Secretary.
2. A member who has absented himself or herself on five consecutive Annual General Meetings.
3. A member whose activities are considered derogatory to the affairs of the Association.

Any member would stand removed, if the motion of his or her removal is passed by a majority vote in the Council. The names of such members would be reported in the next General Meeting. This would be confirmed in the next General Meeting.

The guiding rules as given in the Memorandum and Regulations of IACS have to be followed by the learned members of the General Body. The General Body Members will have to abide by the 'Rules and Regulations of Library', as approved by the Governing Council when they are to use IACS Library. Moreover, the learned members have to maintain the following code of conduct, while they are availing their rights as legitimated by the Governing Council for the General Body members. These are necessary to protect the government property and to ensure security and dignity of the individuals in the Institute.

- a) Members intending to attend the General Body meeting should maintain peace and tranquillity during the proceedings of the meeting of this august body.
- b) A Member entering into the premises of IACS for whatever may be the reason, s/he is expected to take care of the property of IACS, since the entire property of IACS is government property. Since the authority of IACS has been entrusted with the responsibility of the upkeep of these properties the Life members should extend their cooperation to the competent authority in this work.
- c) Members should not use IACS Logo and should not refer IACS for their personal gain. They should not approach to IACS authority to refer their cases elsewhere for submitted scientific papers, posters etc. They also should not approach for any type of support and service for referring their cases elsewhere.
- d) Members are to submit signed registration forms as made compulsory for all the students, researchers and employees in the Institute; otherwise they will not be allowed to avail institute resources any more.
- e) Any act of damaging property of the Institute, and/or denigrating the repute of the Institute in any manner, and/or any violation of standing rules and regulations and statutory norms including anti-ragging, Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 prevailing in the Institute, will be handled by CCS (CCA) Rules, 1965, as applicable to the regular employees of the Institute. The Disciplinary Authority in such cases will be the Director and the Appellate Authority will be the Chairman of the Governing Council.



INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
JADAVPUR, KOLKATA 700032

No.1.2/ 1649

OFFICE MEMORANDUM

December 21, 2017

Subject : Criteria for Life Membership of the General Body of IACS

The Governing Council at its 2017-3 meeting held on 16th September, 2017 approved the following criteria for Life Membership of the General Body of IACS, as recommended by the "Standing Committee on Membership and Fellowship held on 23rd August, 2017.

a) Incumbent should have a Ph. D. in Science/Technology/allied discipline or a Masters degree in Science/Technology/allied discipline with ten years of experience in scientific/technological research with at least 10 peer reviewed publications.

OR

Incumbent should be a permanent teacher for at least 10 years in an undergraduate college/PG College/University department/similar institution, teaching science/technology/allied subjects.

b) Applicants need to submit a write-up within one page on 'the purpose of being member of IACS General Body' along with duly filled in Membership Application Form.

The Standing membership Committee formed by the Governing Council will screen the applications for Life Membership and recommend to the Governing Council the applicants to membership of the Association.

The following fees were approved for Life Membership of the General Body :

Rs.10,000/- (Incumbent from Academic Institution)

Rs.25,000/- (Incumbent from Non-Academic Institution)

The Governing Council further accepted the following suggestions of the Committee:

- The membership fees should be deposited in a separate Account.
- Revised Membership Form, as approved, may be posted on the IACS Webpage with an instruction for submission of one page write-up on 'Purpose of being a Member' along with the duly filled in Application Form.
- The existing Life Members will not be affected for the continuation of their memberships.

This will apply to all the new members to be inducted henceforth.

Consequential action may be taken accordingly.

Copy forwarded for information and necessary action to :

- 1) Director, 2) Dean (Academic & Students' Affairs), 3) Dean (Administration & Finance), 4) Executive Secretary, Management Committee, 5) D-Office, 6) Deans'-Offices, 7) R-Office, 8) Governing Council File.

Purbasha Banerjee / 22.12.17
(Purbasha Banerjee)
Acting Registrar



INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
JADAVPUR, KOLKATA 700032

Space for
attaching Stamp-
sized Photograph

LIFE MEMBERSHIP FORM

Name of the Applicant : _____

Residential Address : _____

Phone No. : _____ e-Mail Address : _____

Educational Qualification : _____
(Attach Self attested photocopy of the last passed Qualification Certificate)

Profession : _____ Designation : _____

Name of the Institute: _____

Nominated BY :

1 st Nominator	2 nd Nominator
Name of Nominator : _____	Name of Nominator : _____
Life Membership No. _____	Life Membership No. _____
Signature : _____	Signature : _____

The undersigned is desirous of becoming Life Member of the Indian Association for the Cultivation of Science (IACS) with a view to promote through its activities the progress of science in all its departments, both as regards its advancement by original research and varied applications to the arts and comforts of life and also agree to abide by the rules and regulations of IACS regarding membership.

Date : _____ Signature of Applicant : _____

For Office Use Only

<i>Signature of the forwarding Officer with Remarks</i>	<i>Signature of the Registrar with Remarks</i>
<i>Name of the Officer :</i> <i>Designation :</i> <i>Date :</i>	<i>Name of the Officer :</i> <i>Designation :</i> <i>Date :</i>

Eligibility Criteria for Life Membership of the General Body of IACS is printed overleaf



INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
JADAVPUR, KOLKATA 700032

Criteria for Life Membership of the General Body of IACS

a) Incumbent should have a Ph. D. in Science/Technology/allied discipline or a Masters degree in Science/Technology/allied discipline with ten years of experience in scientific/technological research with at least 10 peer reviewed publications.

OR

Incumbent should be a permanent teacher for at least 10 years in an undergraduate college/PG College/University department/similar institution, teaching science/technology/allied subjects.

b) Applicants need to submit a write-up within one page on 'the purpose of being member of IACS General Body' along with duly filled in Membership Application Form.

The Standing membership Committee formed by the Governing Council will screen the applications for Life Membership and recommend to the Governing Council the applicants to membership of the Association.

The following fees were approved for Life Membership of the General Body :

Rs.10,000/- (Incumbent from Academic Institution)

Rs.25,000/- (Incumbent from Non-Academic Institution)