



31st Annual General Meeting May 27, 2022

Venue:

Indian Institute of Chemical Biology (IICB) Auditorium

4, Raja S. C. Mullick Road, Jadavpur, Kolkata - 700 032

Council 2021-2023

President Prof. Somnath Dasgupta

INSA Senior Scientist

Geological Studies Unit, Indian Statistical Institute and

Honorary Professor, Indian Institute of Science Education & Research- Kolkata

Vice-Presidents Prof. Partha P. Majumder

National Science Chair (Scientific Excellence), Government of India

Distinguished Professor and Founder, National Institute of Biomedical Genomics, Kalyani

Emeritus Professor, Indian Statistical Institute, Kolkata

Honorary Professor, Indian Institute of Science Education & Research, Mohali

Prof. Aswini Ghosh

Indian Association for the Cultivation of Science, Kolkata

Secretary Prof. Debatosh Guha University of Calcutta

Treasurer Dr. Mrinal Kanti Ghosh Indian Institute of Chemical Biology (CSIR–IICB)

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Prof. Joydeep Mukherjee Jadavpur University

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Dr. Probir Kumar Ghosh (ICAR-National Rice Research Institute), Jharkhand

Dr. Santasabuj DasNational Institute of Cholera and Enteric Diseases, Kolkata

Prof. Sivaji Chakravorti Jadavpur University

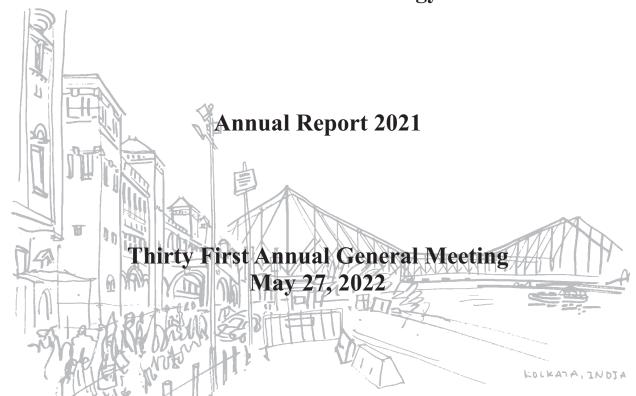
Prof. Sumita JhaNASI, Senior Scientist, University of Calcutta

Prof. Syamal Chakrabarti University of Calcutta



(S/65001 of 1990-1991)

West Bengal Academy of Science and Technology



CSIR-Indian Institute of Chemical Biology (IICB) Auditorium 4, Raja S. C. Mullick Road, Jadavpur Kolkata - 700 032



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Registered under the West Bengal Act XXVI of 1961 (S/65001 of 1990-91) PAN - AAATW0707E

Pubilished by: Dr. Amit Krishna De Editor, West Bengal Academy of Science & Technology Hony. Secretary, Indian Science News Association, Kolkata Advisor, Indian Science Congress Association, Govt. of India

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Annual Report 2021

Report from the Secretary

President and Fellow members:

I am honoured to present before the learned Fellowship of the Academy the Annual Report for the year 2021-2022. The present council has been working since August 2021 and has tried its best in executing the major activities under several constraints caused by the worldwide Covid-19 pandemic. The Academy organized Annual Oration along with other Memorial and Endowment lectures.

- a) Annual Oration: Annual oration in the 31st AGM of the Academy is delivered by Dr. Sandip Chatterjee, Professor & Head of Neurosurgery, VIMS and Park Clinic, Kolkata on May 27 in the Dr. J.C. Ray Auditorium, CSIR-Indian Institute of Chemical Biology, Kolkata. The title of his talk is "Lessons Learnt and Unlearnt During the Covid Pandemic".
- b) Council Meeting: The present Council met thrice prior to the AGM to discuss the major plans and activities. One of the main aspects was to discuss the draft amendments of the WAST rules and regulations. It would be relevant to note that, a committee comprising six council members had critically analyzed and prepared the initial draft of amendments.
- Oration was delivered by eminent clinician Dr. Alakendu Ghosh, Professor and Founder Head, Dept. of Clinical Immunology & Rheumatology, Institute of Post Graduate Medical Education & Research, Kolkata, and President Indian Rheumatology Association on November 15, 2021 through Hybrid mode in the 1 st Floor Board Room, CSIR-Indian Institute of Chemical Biology, Kolkata. The title of his talk was "Rheumatoid Arthritis Looking Beyond the Joint". Professor Somnath Dasgupta, President, WAST welcomed the audience. Dr. Mitali Chatterjee briefly described the life and scientific contribution of Dr. Sunil Chandra Bose. The lecture was attended by a large number of Scientists, Clinicians, Students and others. The program ended with the vote of thanks offered by Prof. Debatosh Guha, Secretary, WAST. The abstract of the talk is presented in this report.
- Das, INSA Senior Scientist, Division of Plant Biology Bose Institute, Kolkata, on November 26, 2021 through Hybrid mode in the 1 st Floor Board Room, CSIR-Indian Institute of Chemical Biology, Kolkata. The title of her talk was "Protective Halo of Plants". Professor Somnath Dasgupta, President, delivered the welcome address and reminisce about the life and activities of Prof. J C Sengupta. The lecture was attended by large number of Scientists, Students and others. The program ended with the vote of thanks delivered by Prof. Maitreyee Dasgupta. The abstract of the talk is presented in this report.

e) Induction to the Fellowship and Associateship of the Academy: Based on the recommendation of each Sectional Committee, the Council approved of the induction of the eminent scientists to the Fellowship and promising young scientists to the Associateship of the Academy. Section-wise lists of the newly elected Fellows and Associates have been provided in this report.

I convey my sincere thanks to Dr. Arun Bandyopadhyay, Director, IICB, Kolkata for extending his wholehearted support in holding most of the meetings and seminars in the physical mode and finally, in organizing the Annual General Meeting 2022 in the Institute premises. Our special thanks to Prof. Maitree Bhattacharyya, Director of Jagadis Bose National Science Talent Search (JBNSTS), Kolkata for collaborating with us in the science programs. I convey my sincere thanks to the members of the Executive Council for their continous support and advice in smooth running the activities of the Academy.

Debatosh Guha

Secretary

West Bengal Academy of Science and Technology



Annual Oration

Dr. Sandip ChatterjeeProfessor & Head of Neurosurgery

VIMS and Park Clinic, Kolkata



Lessons Learnt and Unlearnt During the Covid Pandemic
May 27, 2022 @ 12 noon

The speaker will be introduced by Professor Somnath Dasgupta, President, West Bengal Academy of Science and Technology.

West Bengal Academy of Science and Technology



Dr. Sunil Chandra Bose Memorial Oration 2021

Dr. Alakendu Ghosh

Professor and Founder Head,
Dept. of Clinical Immunology & Rheumatology,
Institute of Post Graduate Medical Education & Research, Kolkata
President, Indian Rheumatology Association



Rheumatoid Arthritis - Looking Beyond the Joint November 15, 2021 at 4:00 PM

You are cordially invited to attend this event to be organized in Hybrid Mode

Abstract of the talk

Rheumatoid Arthritis (RA) is a chronic autoimmune inflammatory disease characterized by polyarthritis and inflammation is triggered by different combinations of genetic and environmental factors. Smoking is one of the most possible culprits for the induction of disease activity in small joints which induced citrullination and autoantibody production. Amongst other possible causes, the bacterial infection might have an important role in initiating the disease progression. *P. gingivalis* bacteria induce citrullination and post-translation modification leading to the production of anticitrullinated protein/peptide antibodies (ACPA). Periodontitis is the most commonly associated disease in RA patients. Lung has also been shown to be another site of citrullination as well. Increased citrullination alters cytokine levels which induce mononuclear cell infiltration inside the joints. FLS(Fibroblast like synoviocytes) is the important cell that resides inside the synovium, cell infiltration increased FLS proliferation and creates a hypoxic environment that leads to pannus formation. Autophagy and apoptosis play a dual role in RA synovium. Though FLS cells are apoptosis-resistant in RA patients autophagic proteins get altered and increased expression of ER stress protein. Due to the breakdown to self-tolerance of T cells, autophagic waste is recycled as an autoantibody and this cycle goes on as a loop.

Early detection is helpful to diagnose RA patients through ACR/EULAR classification criteria 2010. Therapeutic intervention with available synthetic/biologic DMARD is changing the outcome of disease clinically but we need to look deep into the subclinical pathologic process. This aspect of assessment is being endorsed by the use of the PDUS (Power Doppler Ultrasound) modality. Methotrexate (MTX) is the sheet anchor of therapy but with the addition of active compounds of phytochemicals which may ameliorate the adverse events of MTX possibly.

West Bengal Academy of Science and Technology



J C Sengupta Endowment Lecture 2021

Prof. Sampa Das *INSA Senior Scientist*Division of Plant Biology Bose Institute Kolkata



Protective Halo of Plants November 26, 2021 at 4:00 PM

You are cordially invited to attend this event to be organized in Hybrid Mode

Council 2021-2023

President Prof. Somnath Dasgupta

INSA Senior Scientist

Geological Studies Unit, Indian Statistical Institute and

Honorary Professor, Indian Institute of Science Education & Research- Kolkata

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Vice-Presidents Prof. Partha P. Majumder

National Science Chair (Scientific Excellence), Government of India

Distinguished Professor and Founder, National Institute of Biomedical Genomics, Kalyani

Emeritus Professor, Indian Statistical Institute, Kolkata

Honorary Professor, Indian Institute of Science Education & Research, Mohali

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Prof. Syamal Chakrabarti University of Calcutta

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WAST SECTIONAL COMMITTEES (2021-2023)

Sectional Committee I: Mathematical Sciences

Ayanendranath Basu, ISI, Kolkata (Convener)

Indrajit Lahiri, University of Kalyani

Sudeshna Banerjea, Jadavpur University

Rahul Mukerjee, (ex) IIM, Kolkata

Prof. Mihir Kumar Chakraborty, (ex) University of Calcutta

Sectional Committee II: Physical Sciences

Mrinal Pal, CGCRI, Kolkata (Convener)

Pathik Kumbhakar, NIT Durgapur

Bikas K. Chakrabarti, (ex) SINP, Kolkata

Sukhen Das, Jadavpur University

Abhijit Kr. Das, IACS, Kolkata

Swapan Kumar Pradhan, Burdwan University

Aswini Ghosh, IACS, Kolkata

Sectional Committee III: Chemical Sciences

Nikhil Guchhait, University of Calcutta (Convener)

Samita Basu, SINP, Kolkata

Subratanath Koner, Jadavpur University

Chinmay Chowdhury, IICB, Kolkata

Kumaresh Ghosh, University of Kalyani,

Tarun K Mandal, IACS, Kolkata

Surajit Chattopadhyay, University of Kalyani

Sectional Committee IV: Engineering and Technology

Swarnendu Sen, Jadavpur University (Convener)

Amlan Jyoti Pal, IACS, Kolkata

Animesh Maitra, University of Calcutta

Dipti Prasad Mukherjee, ISI, Kolkata

Sekhar Chandra Dutta, IIT-ISM Dhanbad

Dipankar Chattopadhyay, University of Calcutta

Amitava Datta, Jadavpur University

Sectional Committee V: Earth and Planetary Sciences

Joydip Mukhopadhyay, Presidency University, (Convener)

Subir Sarkar, Jadavpur University

Saibal Gupta, IIT, Kharagpur

Sankar Bose, Presidency University

Prabir Dasgupta, Durgapur Govt. College

Supriyo Mitra, IISER, Kolkata

Sudipta Sengupta, (ex) Jadavpur University

Sectional Committee VI: Plant Sciences

Maitrayee Dasgupta, University of Calcutta (Convener)

A. N. Lahiri Majumder, (ex) Bose Institute, Kolkata

Sudip Chattopadhyay, NIT Durgapur

Swapan Kr. Datta, Biswa Bangla University

Somnath Bhattacharya, BCKV, Kalyani

Sectional Committee VII: Animal Sciences

Arun Bandyopadhyay, IICB, Kolkata (Convener)

Subrata Adak, IICB, Kolkata

Sudip K Ghosh, IIT Kharagpur

Rathindra Nath Baral, Chittaranjan National Cancer Institute, Kolkata

Siddhartha Jana, IACS, Kolkata

Ellora Sen, National Brain Research Centre, Guargaon

Sectional Committee VIII: Medical and Veterinary Sciences

Mitali Chatterjee, IPGMER, Kolkata(Convener)

Jayasri Das Sarma, IISER Kolkata

Amit Ghosh, NICED, Kolkata

Alakendu Ghosh, IPGMER, Kolkata

Santanu Guha, Medical College, Kolkata

Partha Sarathi Bhattacharya, IPCR, Kolkata

Bibhuti Saha, School of Tropical Medicine, Kolkata

Sectional Committee IX: Biochemistry and Biophysics

Susanta Roychoudhury, IICB, Kolkata (Convener)

Syamal Roy, IICB, Kolkata

Sharmila Sengupta, National Institute of Biomedical Genomics, Kalyani

Koustubh Panda, University of Calcutta

Subrata Majumdar, Bose Institute, Kolkata

Shelley Bhattacharya, Visva Bharati University

Tanya Das, Bose Institute, Kolkata

Sectional Committee X: Agriculture and Forestry

Somnath Bhattacharyya, Bidhan Chandra Krishi Viswavidyalaya, Kalyani (Convener)

Tapan Purakayastha, Indian Agricultural Research Institute, New Delhi

Gouranga Kar, ICAR-Central Research Institute for Jute and Allied Fibres, Barrackpore

Bikash Mandal, Indian Agricultural Research Institute, New Delhi

Pratap Bhattacharyya, ICAR-National Rice Research Institute, Cuttack

K.G. Mandal, ICAR-Mahatma Gandhi Integrated Farming Research Institute, Bihar

Biswapati Mandal, Bidhan Chandra Krishi Viswavidyalaya, Kalyani

Sectional Committee XI: Social Sciences

Maitree Bhattacharya, University of Calcutta (Convener)

Manas Pratim Das, All India Radio, Kolkata

Amalesh Mukhopadhyay, DST, Govt. of India

Ambika C. Banerjee, (ex) East India Pharmaceutical Works

Sk. Emdadul Islam, (ex) Birla Industrial & Technological Museum

Shree Bhagwan Roy, (ex) Indian Institute of Bio Social Research & Development, Kolkata

Sectional Committee XII: Environmental Sciences

Pradip K. Sikdar, IISWBM, Kolkata (Convener)

Asis Majumdar, Jadavpur University

Pinaki Sar, IIT, Kharagpur

Tapan Kumar Dutta, Bose Institute, Kolkata

Sandip K. Mukhopadhayay, University of Calcutta

Tapan Adhya, KIIT, Bhubaneshwar

Aniruddha Mukhopadhayay, University of Calcutta

List of Fellows Elected in 2021

Name, Address & Mail

Specialization

Section I: Mathematical Sciences



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Section II: Physical Sciences



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Upendranath Nandi

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Physics, Materials Science Electrical study.



P. K. Giri

Professor, Dept. of Physics Indian Institute of Technology Guwahati-781039

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Section III: Chemical Sciences



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Genetic algorithm-density functionaltight binding (GA-DFTB) method Energy storage devices Spintronics materials Catalysis



Tushar Jana

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Polymer membranes
Polymeric nanostructures
polyurethanes
polymerization induced self-assembly (PISA)



Pabitra Chattopadhyay

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Burdwan-713104

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Solid phase extractors Chemosensors Radiopharmaceuticals

Section IV: Engineering & Technology



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Polymer Science and Engineering



Rajib Bandyopadhyay

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Instrumentation and Electronics Engineering



Amlan Chakrabarti

Professor, A.K. Choudhury School of Information Technology University of Calcutta

Kolkata-700106

Email: acakcs@caluniv.ac.in Mobile: 9831129520 Embedded Systems, Quantum Computing and Computational Intelligence



Anupam Basu

Director, NIT Durgapur

Professor, Dept. Computer Science, IIT Kharagpur

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director@admin.nitdgp.ac.in Mobile: 8335881836, 9434017654 Artificial Intelligence based Language Processing



Subrata Chakraborty

Professor, Dept. of Civil Engineering, Indian Institute of Engineering Science and Technology

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Structural Engineering



Suvankar Ganguly

Principal Scientist, Research & Development Division,

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Mechanical Engineering

Section V: Earth and Planetary Sciences



Sarbani Patranabis-Deb

Professor and Head, Geological Studies Unit, Indian Statistical Institute

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Leading
sedimentologist in India;
commendable work on the sedimentation and
tectonics of the Proterozoic cratonic basins
and geochronology.



Sukanta Dey

Professor and Head, Dept. Earth Sciences Indian Institute of Science Education and Research (IISER)

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Kolkata, Monahpur-741246

Fundamental contribution in understanding of the formation and evolution of the early continents, outstanding petrologist and a meticulous geochronologist

Section VI: Plant Sciences



Shubho Chaudhuri

Professor, Division of Plant Biology Bose Institute Kolkata-700054

Email: shubho@jcbose.ac.in Mobile: 9674445984 Chromatin conformation changes during plant development

Section VII: Animal Sciences



Koel Chaudhury

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Reproductive physiology



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Section VIII: Medical and Veterinary Sciences



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Metabolic diseases (Diabetes, Cancer and Non-alcoholic fatty liver disease)



Sulagna Basu

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Antimicrobial resistance

Section IX: Biochemistry & Biophysics



Ranjan Sen

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Email: rsen@cdfd.org.in Mobile: 9866122652 Biology of bacterial transcription termination and anti-termination.



Anindita Ukil

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Mechanism of Leishmania mediated host defense breakdown.



Sanjay Ghosh

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Nitric Oxide biology in vertebrates and invertebrates.

Section X: Agriculture and Forestry



Rintu Banerjee

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Production technology for industrial-enzymes related to food and bio-energy.



Koushik Banerjee

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Efficient protocols of pesticide residues and mycotoxins in food matrices.



Swarup K. Chakraborty

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vc@ubkv.ac.in Mobile: 9400014400 Plant-pathogen diagnostics tools & quality potato seed production.

Section XI: Social Sciences



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Socially relevant issues.

Section XII: Environmental Sciences



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Adsorption thermodynamics, Water-wastewater treatment, Geogenic pollutant scavenging

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Electronics and Electrical Communication Engineering



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Cancer Research



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Soil Science and Agricultural Chemistry



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Hill Agriculture along with Integrated Farming System

Minutes of the 30th AGM held on May 7, 2021 in a virtual mode

The 30th Annual General Meeting (AGM) of the Academy was held on May 7, 2021 in a virtual mode under the Chairmanship of Prof. Partha Pratim Majumder, President, of WAST. The following resolutions were adopted.

Item 1.0 : The Minutes of the 29th AGM of the Academy held on December 17, 2019 at CSIR-IICB were confirmed

Item 2.0 : The Annual Report of the Academy for the year 2020 was placed in the meeting for confirmation and was adopted after discussion.

Item 3.0 : The Auditor's Report for the financial year 2019-2020 was presented by the Treasurer and was approved after discussion.

Item 4.0 : The same Auditor was appointed for the year 2020-2021 without any change in fees payable.

Item 5.0 : In view of the pandemic situation, the house requested the council to continue even after the compilation of its 2 term at the end of 2020. Prof. P. P. Majumder, President WAST expressed his reservation in continuing and proposed to elect a new council with the help of a suitable search committee within July 2021. His proposal was accepted by the house.

Item 6.0 : The names of the newly elected Fellows and Associates of the Academy for the year 2020 were announced with warm congratulations to all of them. The certificates were kept ready for handing over to them on a suitable opportunity.

The General Body appreciated the efforts made by the Council and supported the initiatives mentioned above. The meeting ended with a vote of thanks to the Chair.

Concluding Note from the Secretary

The activities of the West Bengal Academy of Science and Technology undertaken during 2021-

2022 have been presented in the preceding pages of the annual report. It is my pleasant duty to

present this Report to the distinguished Fellows attending the 31st Annual General Body Meeting

today. We are happy to conduct the AGM this time again in a physical mode. The Audit Reports for

2020-2021 and 2021-2022 will be presented by the Treasurer.

This year, for the obvious reasons caused by the covid-19 related restrictions, the activities of the

academy were restricted to its basic mandates. Accordingly, conducted Dr. Sunil Chandra Bose

Memorial Oration on 15 November 2021 and J. C. Sengupta Endowment Lecture on 26 November

2021. Both lectures were organized in hybrid mode at IICB Board room and were attended by quite a

good number of participants which included fellows of the academy and many young researchers

from the various institutes of the country. The hard copy of WAST Year Book 2020 is available. The

next edition has been planned to be grossly revised and the editing of the same is under progress.

The nomination process for fellows and associates of the Academy has been successfully

transformed to online mode since 2021 and that facilitated functioning of the Sectional Committees

smooth and efficient.

I am happy to share with you a couple of outstanding international honours of our Fellows earned this

year. Dr Mitali Chatterjee. Professor of Pharmacology, Institute of Postgraduate Medical Education

& Research (IPGMER), Kolkata, has been elected Fellow of the World Academy of Sciences

(TWAS) in 2021 and Dr. Subhasish Dey, Professor, Indian Institute of Technology Kharagpur has

been awarded the prestigious 2022 Hans Albert Einstein Award from the American Society of Civil

Engineers (ASCE) in recognition of his outstanding contributions to fluvial hydrodynamics.

We look forward to many such exciting news, events and vibrant activities of the academy in the

coming years.

May 27, 2022

Debatosh Guha

Secretary



Statement of Accounts

&

Auditor's Report

Year:

2020 - 2021

&

2021 - 2022



INDEPENDENT AUDITOR'S REPORT

To the members of WEST BENGAL ACADEMY OF SCIENCE AND TECHNOLOGY

Opinion

We have audited the financial statements of WEST BENGAL ACADEMY OF SCIENCE AND TECHNOLOGY, 4, Raja S. C. Mallick Road, Kolkata - 700032, which comprises of the Balance Sheet as on 31st March 2021 and the Income and Expenditure Account for the year then ended and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements give a true and fair view of the financial position of the entity as at March 31, 2021, and of its deficit for the year then ended in accordance with the Accounting Standards issued by the ICAI.

Basis of Opinion

We conducted our audit in accordance with the Standards on Auditing (SAs) issued by ICAI. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the entity in accordance with the ethical requirements that are relevant to our audit of the financial statements under West Bengal Act XXVI of 1961, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the aforesaid Accounting Standards, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the entity's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the entity or to cease operations, or has no realistic alternative but to do so. Those charged with governance are responsible for overseeing the entity's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

For DEBASIS BANDYOPADHYAY & CO. Chartered Accountants [Firm Registration No. – 324338E]

Debasis Bandyopadhyay, Proprietor

(M. No. – 057861) Place : Kolkata Dated : 28/02/2022

DYOPA

Chartered

UDIN - 22057861ADVIIZ6458

8/3C, Bird Hoy Road (W), Kolkata - 700008, Dial : 9831186788 / 9804815922, dbc22003@yahoo.com

4, Raja S. C. Mallick Road, Kolkata - 700032

Balance Sheet as on 31st March 2021

Labines	Amt(Rs.)	Amt(Rs.)	Assets	Amt(Rs.)	Amt(Rs.)
General Fund			Fixed Assets		
As per last a/c	342,509.44		Furnitures (as per last a/c)	448.00	
Add : (Deficit) for the year	-75,057.00	267,452.44	Less : Depreciation @ 10%	45.00	403.00
Corpus Fund					
As per last a/c		177,760.00	Cash and Bank Balance		
			Cash in hand		1,263.00
			Cash at Bank		
Current Liabilities			i) Current a/c with SBI		
Grant from Jagadish Bose Science Centre	60,000.00	(A/c No. 11079700023)	105,240.44		
Pending Utilization)			ii) Fixed Deposit (WAST)	228,306.00	
			iii) Fixed Deposit	170,000.00	503,546.44
			(Endownment Fund)		
		505,212.44			505,212.44

Place: Kolkata Dated: 28/02/2022

For WB Academy of Science and Technology

Somrath Dasgupta

President

For WB Academy of Science and Technology Secretary

For WB Academy of Science and Technology

Treasurer

1

डॉ. मृणाल कांति घोष / Dr. Mrinal Kanti Ghosh, PhD, FNASc, FAScT

वरिष्ठ प्रधान वैज्ञानिक (एफ) एवं प्रोपेसस, ACSIR क्रिक्ट Principal Scientist (F) & Professor, ACSIR क्रिक्ट Principal Scientist (F) & Professor, ACSIR क्रिक्ट शाम प्रमुख, क्रिक्ट शास्त्रिकाल एवं मुक्तन-संबंधी विकास (सो बाजार क्रिक्ट) वाले Dission of Cancer Biology and Inflammatory Dissorter (CBIR THE STATE THE RESERVED AND THE STATE AND AND THE STATE AND THE STA

In terms of our report of even date

Debasis Bandyopadhyay, Proprietor For Debasis Bandyopadhyay & Co. Chartered Accountants

Membership No. - 057861



4, Raja S. C. Mallick Road, Kolkata - 700032

Income and Expenditure Account for the year ended 31st March 2021

Expenditure	Amt(Rs.)		Income	Amt(Rs
Salary to Staff (Part Time)	60,000.00	Ву,	Interest on Fixed Deposit	14,488.0
* Bank Charges	649.00	"	Life Membership Subscription	
* Website maintenance	28,851.00			
* Depreciation on Furnitures	45.00			
Excess of expenditure over income				
(deficit) transferred to General Fund	(75,057.00)			
	14,488.00			14,488.0

Place: Kolkata Dated: 28/02/2022

Sommath Dasgupta For WB Academy of Science and Technology

President

For WB Academy of Science and Technology Secretary

For WB Academy of Science and Technology Treasurer

डॉ. मुणाल कांति घोष/Dr. Mrinal Kanti Ghosh, PhD, FNASC, FASCT वरिष्ठ प्रधान वैज्ञानिक (एक) एवं प्रोपेस्सर, AcSIR अपित्र प्रधान वैज्ञानिक (एक) एवं प्रोपेस्सर, AcSIR अपित्र प्रधान केंद्र प्रिक्तान एक स्वान चेसपी कि कर तीबीआईकी Head, Division of Cancer Biology and inflammator & bsorder (CBID) सीएसआईआर-पारवीच का प्रधाविक के विकास संस्थान (आई आईमीकी) CSIR-Indian Institute of Chemical Biology (IICB) Salt Lake Campus (TRUC), CN-6, Sector-V, Salt Lake, Kolkata-700 091 & 4, Raja S.C. Mullick Road, Jadavpur, Kolkata-700 032, India

In terms of our report of even date

Debasis Bandyopadhyay, Proprietor For Debasis Bandyopadhyay & Co. **Chartered Accountants** Membership No. - 057861



4, Raja S. C. Mallick Road, Kolkata - 700032

Receipts and Payments Account for the year ended 31st March 2021

Receipts		Amt(Rs.)		Payments		Amt(Rs.)
Doening Balance			Ву,	Salary to Staff (Part Time)	AMINE N	60,000.00
Cash in hand		1,263.00				
Cash at Bank			11	Bank Charges		649.00
Current a/c with SBI						
(A/c No. 11079700023)	120,252.44		11	Website maintenance		28,851.00
Fixed Deposit (WAST)	228,306.00					
ii) Fixed Deposit (Endownm_	170,000.00	518,558.44				
nterest on Fixed Deposit		14,488.00	11	Closing Balance		
				Cash in hand		1,263.00
life Membership Subscription	1			Cash at Bank		
				i) Current a/c with SBI		
Grant from Jagadish Bose Scie	ence Centre	60,000.00		(A/c No. 11079700023)	105,240.44	
				ii) Fixed Deposit (WAST)	228,306.00	
				iii) Fixed Deposit (Endowni_	170,000.00	503,546.44
		504 300 44			-	594,309.44
	Current a/c with SBI A/c No. 11079700023) Fixed Deposit (WAST) Fixed Deposit (Endownm_ Interest on Fixed Deposit If Membership Subscription	Current a/c with SBI	Current a/c with SBI	Current a/c with SBI A/c No. 11079700023) 120,252.44 " Fixed Deposit (WAST) 228,306.00 Fixed Deposit (Endownm 170,000.00 518,558.44 Interest on Fixed Deposit 14,488.00 " If Membership Subscription from Jagadish Bose Science Centre 60,000.00	Current a/c with SBI A/c No. 11079700023) 120,252.44 "Website maintenance Fixed Deposit (WAST) 228,306.00 Fixed Deposit (Endownm 170,000.00 518,558.44 Interest on Fixed Deposit If Membership Subscription - Closing Balance Cash in hand Cash at Bank i) Current a/c with SBI Grant from Jagadish Bose Science Centre 60,000.00 (A/c No. 11079700023) ii) Fixed Deposit (Endowni	Current a/c with SBI A/c No. 11079700023) 120,252.44 "Website maintenance Fixed Deposit (WAST) 228,306.00 Fixed Deposit (Endownm 170,000.00 518,558.44 Interest on Fixed Deposit I 4,488.00 "Closing Balance Cash in hand Cash at Bank i) Current a/c with SBI Grant from Jagadish Bose Science Centre 60,000.00 (A/c No. 11079700023) 105,240.44 ii) Fixed Deposit (Endowni 170,000.00 iii) Fixed Deposit (Endowni 170,000.00

Place : Kolkata Dated : 28/02/2022

Somueth Sasgupta
For WB Academy of Science and Technology

President

For WB Academy of Science and Technology

Secretary

West Bengal Academy of Science and

नाल कॉक्टियीष / Dr. Mrinal Kanti Ghosh, PhD, Faster बरिष्ठ प्रधान वैज्ञानिक (एफ) एवं प्रोफेसर Sr. Principal Scientist (F) & Professor

न्युज, केंसर जोवविज्ञान एवं सुजन-संबंधी विकास Division of Cancer Biology and inflammatory Dis-क्रियार-नारतीय सामायनिक जीविज्ञान संस्थान R-Indian Institute of Chemical Bio Campus (TRUE), CN-6, Sector-V, Salt Lake, Ko Faja S.C. Mullick Road, Jadavpur, Kolkata-700 332 In terms of our report of even date

D. Bandyopadhyay, Proprietor M. No.- 057861

for DEBASIS BANDYOPADHYAY & CO. Chartered Accountants

Notes attached to and forming part of the Accounts for the year 2020-2021

A. SIGNIFICANT ACCOUNTING POLICIES

1. Accounting Concepts

The society follows the cash system of accounting and recognizes the income and expenditure on cash basis, whenever received or paid as the case may be, are being recorded.

The accounts are being prepared on historical cost and going concern concept. Accounting policies referred to otherwise are consistent with generally accepted accounting principles.

2. Fixed Assets and Depreciation

Fixed Assets have been shown at written down value, after charging depreciation. Depreciation has been charged under written down valued method and at the rates specified under Income Tax Act, 1961 with effect from the financial year 2013-2014.

3. Membership Subscriptions

Membership fees received has been treated as revenue receipts as per accounting policy continuously followed;

4. Investments

West Beng

Investments in fixed deposits has been recorded at face value being invested; interest accrued and not due are not being accounted for as the accounting method followed by the society is cash basis accounting.

B. NOTES TO ACCOUNTS

Grant received from Jagadish Bose Science Centre; pending utilization the same is being considered as current liability





INDEPENDENT AUDITOR'S REPORT

To the members of WEST BENGAL ACADEMY OF SCIENCE AND TECHNOLOGY

We have audited the financial statements of WEST BENGAL ACADEMY OF SCIENCE AND TECHNOLOGY, 4, Raja S. C. Mallick Road, Kolkata - 700032, which comprises of the Balance Sheet as on 31st March 2022 and the Income and Expenditure Account for the year then ended and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements give a true and fair view of the financial position of the entity as at March 31, 2022, and of its surplus for the year then ended in accordance with the Accounting Standards issued by the ICAI.

Basis of Opinion

We conducted our audit in accordance with the Standards on Auditing (SAs) issued by ICAI. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the entity in accordance with the ethical requirements that are relevant to our audit of the financial statements under West Bengal Act XXVI of 1961, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the aforesaid Accounting Standards, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the entity's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the entity or to cease operations, or has no realistic alternative but to do so. Those charged with governance are responsible for overseeing the entity's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

For DEBASIS BANDYOPADHYAY & CO. Chartered Accountants [Firm Registration No. - 324338E]

Debasis Bandyopadhyay, Proprietor

(M. No. - 057861) Place: Kolkata Dated: 14/04/2022

UDIN - 22057861AHALSX6900 OYOPADA

8/3C, Biren Roy Road (W), Kolkata - 700008, Dlal: 9831186788 / 9804815922, dbc22003@yahoo.com

4, Raja S. C. Mallick Road, Kolkata - 700032

Balance Sheet as on 31st March 2022

Balance Sheet as on 31st March 2022 Amt(Rs.)						
Liabilities	Amt(Rs.)	Amt(Rs.)	Assets	Amelia	Amt(Rs.)	
General Fund As per last a/c Add : (Deficit) for the year	267,452.44 194,285.00	461,737.44	Fixed Assets Furnitures (as per last a/c) Less: Depreciation @ 10%	403.00 40.00	363.00	
Corpus Fund As per last a/c		177,760.00	Cash and Bank Balance Cash in hand Cash at Bank i) Current a/c with SBI		1,263.00	
			(A/c No. 11079700023) ii) Fixed Deposit (WAST) iii) Fixed Deposit (Endownment Fund)	239,565.44 228,306.00 170,000.00	637,871.44	
		639,497.44			639,497.44	

Place: Kolkata

Dated: 14/04/2022

Somnath Dasgupta For WB Academy of Science and Technology

President

For WB Academy of Science and Technology

Secretary

For WB Academy of Science and Technology

Treasurer

डॉ. मृणाल कांति घोष / Dr Mrinal Kanti Ghosh, PhD, FNASc, FAScT

डा. मुणाल काल घाष/ Dr Mnnal Kano Gnosii, PhD, FNASC, FASCI वरिष्ठ प्रधान वैज्ञानिक (एक) एवं प्रोपेत्सर, ACSIR S. Principal Scientist (F) & Professor, ACSIR कियार पास्त्र केसर जीवविज्ञान पर्व पुरस्त संबंधी विकार (रोजी आहेती) कावती, Division of Cancer Fiology and Inflammatory Olsorder (CBID) सामाजार कार-भारतीय सामाजनिक जीवविज्ञान संख्यान (आहेजांकों के CSIR-Inciden Institute of Chemical Biology (IICB) all Lake Campus (TRUE), CN-6. Sector V, Saft Lake, Kolkuta-700 for & 4, Baja S.C. Muller Broad, Branson Verbraa-700 632 India

In terms of our report of even date

Debasis Bandyopadhyay, Proprietor For Debasis Bandyopadhyay & Co. Chartered Accountants

ship No. - 057861

4, Raja S. C. Mallick Road, Kolkata - 700032

Income and Expenditure Account for the year ended 31st March 2022

Income and Expen	diture Account fo	ture Account for the year ended 31st March 2022		Amt(Rs.)
	Amt(Rs.)		Income	14,488.00
Expenditure Salary to Staff (Part Time)	35,000.00	Ву,	Interest on Fixed Deposit	
Allowance out of JBSC grant	36,000.00	п	Life Membership Subscription	312,100.00
Printing and Publication	69,564.00	11	Grant from Jagadish Bose Science Centre	60,000.00
Bank Charges	649.00			
Website maintenance	36,580.00			
Stationery, Printing, Refreshments etc.	8,070.00			
Audit Fees (for FY 2019-20)	5,900.00			
Conveyance	500.00			
Depreciation on Furnitures	40.00			
Excess of income over expenditure (surplus) transferred to General Fund	194,285.00)		386,588.
	386,588.00)		580,588.

Place : Kolkata Dated: 14/04/2022

Someath Kasqueta For WB Academy of Science and Technology

President

For WB Academy of Science and Technology Secretary

For WB Academy of Science and Technology

Teasurer

है. मुणाल कांति घोष / Dr. Mrinal Kanti Ghosh, PhD, FNASc, FAScT वरिष्ठ प्रधान वैज्ञानिक (एफ) एवं प्रोफेसर, AcSIR & Sr. Principal Scientist (F) & Professor, AcSIR

जा, Philippa Scientist () कि निकार क्षिण पूर्व आप्रमुख, केसर जीवॉब तान एवं सुजन संबंधी विकार (सीची आईडी) अंग्रेडील of Caricar Biology and Inflammatory Disorcer (CBID) संजाईकार-पारतीय यसायनिक जोवॉबकान संस्थान (काईआईसीची) अस्ट Campus (TRUE), CN-6, Sector-V, Salt Lake, Kulkata-700 08 4 Pala S.C. Mullick Road, Jadavpur, Kolkata-700 082, India

In terms of our report of even date

Debasis Bandyopadhyay, Proprietor For Debasis Bandyopadhyay & Co. Chartered Accountants

No. - 057861

4 Raja S. C. Mallick Road, Kolkata - 700032

Receipts and Payments Account for the year ended 31st March 2022

Receipts and rays	Amt(Rs.)		Payments	Amt(Rs.)
Receipts Dening Balance		By,	Salary to Staff (Part Time)	35,000.00
Cash in hand	1,263.00			
Cash at Bank		11	Allowance out of JBSC grant	36,000.00
i) Current a/c with SBI				
(A/c No. 11079700023) 105,240.44		11	Printing and Publication	69,564.00
ii) Fixed Deposit (WAST) 228,306.00				
iii) Fixed Deposit (Endownm 170,000.00		11	Bank Charges	649.00
		n .	Website maintenance	36,580.00
Interest on Fixed Deposit	14,488.00	u	Stationery, Printing, Refreshments etc.	8,070.00
Life Membership Subscription	312,100.00	п	Audit Fees (for FY 2019-20)	5,900.00
		п	Conveyance	500.00
			Closing Balance	
			Cash in hand	1,263.00
			Cash at Bank	
			i) Current a/c with SBI	
			(A/c No. 11079700023) 239,565.44	
			ii) Fixed Deposit (WAST) 228,306.00	
			iii) Fixed Deposit (Endownr 170,000.00	637,871.44
	831,397.44			831,397.44

Place : Kolkata Dated : 14/04/2022

Somvath Basqupter

President

For WB Academy of Science and Technology

Secretary

West Bengal Academy of Science and Technology
WB Academy of Science and Technology

- curor

Treasurer

कांति घोष्ट्र Dr. Mrinal Wanti Ghosh, PhD, FNASc, FAScT बरिष्ठ प्रधान वैज्ञानिक (एफ) एवं प्रोफेसर, AcSIR Sr. Principal Scientist (F) & Professor, AcSIR

्र केंसर जीवविज्ञान एवं स्जन-संबंधी विकार (सीबीआईडी) son of Cancer Biology and inflammatory Disorder (CBID) कार-पारतीय रासायनिक जोवविज्ञान संस्थान (आईआईसीबी) dian Institute of Chemical Biology (IICB) anous (TRUE), CN-6, Sector-V, Salt Lake, Kolkata-700 091 In terms of our report of even date

Debasis Bandyopadhyay, Proprietor For Debasis Bandyopadhyay & Co. Chartered Accountants

Membership No. - 057861



Notes attached to and forming part of the Accounts for the year 2021-2022

A. SIGNIFICANT ACCOUNTING POLICIES

1. Accounting Concepts

The society follows the cash system of accounting and recognizes the income and expenditure on cash basis, whenever received or paid as the case may be, are being recorded.

The accounts are being prepared on historical cost and going concern concept. Accounting policies referred to otherwise are consistent with generally accepted accounting principles.

2. Fixed Assets and Depreciation

Fixed Assets have been shown at written down value, after charging depreciation. Depreciation has been charged under written down valued method and at the rates specified under Income Tax Act, 1961 with effect from the financial year 2013-2014.

3. Membership Subscriptions

Membership fees received has been treated as revenue receipts as per accounting policy continuously followed;

4. Investments

Investments in fixed deposits has been recorded at face value being invested; interest accrued and not due are not being accounted for as the accounting method followed by the society is cash basis accounting.

B. NOTES TO ACCOUNTS

Grant received from Jagadish Bose Science Centre received during the year 2020-2021, being utilized in the current financial year 2020-2022.



INTERNATIONAL RECOGNITION Received by WAST Fellows



Dr.Mitali Chatterjee, Professor of Pharmacology, Institute of Postgraduate Medical Education & Research (IPGMER), Kolkata has been elected **Fellow of the World Academy of Sciences (TWAS)** in 2021.



Subhasish Dey, Professor at Indian Institute of Technology Kharagpur has been awarded the prestigious **2022 Hans Albert Einstein Award** from the American Society of Civil Engineers (ASCE) in recognition of his outstanding contributions to fluvial hydrodynamics. Citing Dey's contributions, the Award Committee noted that Dey has been awarded this recognition for 'his fundamental contribution to the fluvial sediment transport, turbulence mechanism, local scour, and alluvial river dynamics from the perspectives of research, education and practice.' Dey is the 3rd recipient of Hans Albert Einstein Award outside the USA.



