**ASSOCIATION OF CHEMISTRY TEACHERS (ACT)**

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**Secretary’s Report of ACT activities for the period November 2022 -March 2023**

1)NATIONAL CONVENTION OF CHEMISTRY TEACHERS(NCCT 2022) was held in the offline mode along with International Conference on Chemistry and Chemistry Education on the theme “Innovations for Sustainable Chemistry :Challenges and Opportunities”on October 13-15,2022 at SVVV University,Indore under the Convenorship of Prof Ashutosh Shukla and Prof Navneeta Upadhyay,SVVV University,Indore.NCCT 2022 and the International Conference were organized in collaboration with Indian Chemical Society,Kolkata

Padma Vibhushan Prof M M Sharma,FRS was the Chief Guest and delivered the Keynote Address.Prof Dr Upinder Dhar,Honourable Vice Chancellor,SVVV Universyrt,Indore andChief Patron,NCCT 2022 gave the Welcome Address

Invited Lectures were delivered by

1)Prof Dr Liza Abraham, Ambrose University,Calgary University,Canada-

Green Chemistry Eductaion towards Sustainability:Initiatives at a Canadian Liberal Arts University

2)Prof Sreekanth B Jonnalagadda,School of Chemistry and Physics,Westville Campus,University of KwaZulu -Natal,Durban,South Africa-

Novel Materials as Recyclable catalysts for Organic Synthesis

3) Prof V P Singh,NCERT,New Dellhi-

A Greener Approach towards Chemistry Laboratory Experiments

4) Padma Shri Prof G D Yadav,President Indan Chemical Society,Emeritus Professor,ICT,Mumbai-

The Net Zero Goal and Sustainability:Adoption of Green Hydrogen Technologies,CO2 Refineries and Biomass Valorization

5) Prof Roshan Kumar Yadav,Member,Nepal National Commission for UNESCO,Ministry of Education,Science and Technology,Government of Nepal,Nepal –

Medicinal Plants of Nepal

6) Dr Piyali Das,Senoir Fellow and Area Convenor,DBT-TERI,New Delhi-

Role of Green Chemistry in achieving SDG Goals and Opportunities in India

7)Dr Rajesh Kumar,IIT-Indore,Indore-

Teaching and Mentoring Methods-Dos and Don’ts

8) Prof D C Deka, Vice Chancellor,Madhab Dev University,Narayanpur,Assam-

Innovation for Sustainable Chemistry :Challenges and Opportunities

9)Prof Krishna Kumar Sharma, Former Vice Chancellot,Maharshi Dayanand Saraswati University,Ajmer-

Medicinal,Commercial and Forensic Importance of Venom of four major Snakes of India

10)Dr Nishith Dubey,Head,DTVE&R,NITTTR,Bhopal-

Guided Discovery :a Tool for Creative Learning

Messages were received from 1)Prof Gill Reid,President,Royal Socirty of Chemistry,London (UK) and 2)Prof Javier Garcia -Martinez,President IUPAC.

There were 40 oral presentations and15 poster presentations by the participants for which best paper presentation prizes were awarded by ACT.

A commemorative volume containing the abstracts of the invited lectures and oral and poster presentations was released on the occasion.

The ECM and AGM of ACT were held on October 13 and 14 ,2022 respectively.

**ACT AWARDS 2022** were presented to the outstanding Chemistry teachers of the country in recognition of their meritorious services to Chemistry and Research

1)ACT Life Time Achievement Award 2022-Prof Dr Rajeev Jain,Director,Directorate of Culture and Cultural Affairs,Pondicherry University,Puducherry,Former Dean of Science Faculty and Director of Institute of Engineering,Jiwaji University,Gwalior.

2) ACT Shri Anupam Sinha Best Chemistry Teacher Award 2022-Prof Dr Seema Joshi,Isabella Thoburn College,Lucknow

3) ACT Best Woman Chemistry Teacher Award 2022-Prof Dr Alka Sharma, Department of Chemistry,University of Rajasthan,Jaipur

4) ACT Prof Lallan Singh Award for Best PG Chemistry Teacher (State Universities )2022-Prof Dr Nikhil Guchhait,Department of Chemistry,University of Calcutta,Kolkata

5)ACT Prof Dr Bhupendra Sahai Saxena Award for Best PG Chemistry Teacher-Prof r A Jafar Ahamed,Jamal Mohammed College(Autonomous),Tiruchirappalli,Tamil Nadu

6)ACT Prof Pinki B Punjabi Award for Outstanding Contribution to Research in Chemical Sciences-Prof Dr Subramania Angaiah,Pondicherry University,Puducherry

**2) ACT organized and supported the following activities during November 2022 -March 2023**

1)International Conference on Green Initiatives in Chemical Sciences for Sustainable Development at Department of Chemistry,Sikkim Manipal Institute of Technology,Majitar,Rangpo,Sikkim in collaboration with Indian National Science Academy,New Delhi on November 18-19,2022.The Conference was organized to celebrate International Year of Basic Sciences for Sustainable Development 2022.

Prof Dr Sangeeta Jha,Professor,Department of Chemistry and Associate Director (A),SMIT served as the General Chair and Prof Dr Nayan Kamal Bhattacharyya,Head Department of Chemistry,SMIT served as the Convenor of the Conference.Dr(Lt.Gen.) Rajan S Grewal,Honourable Vice Chancelor,SMIT was the Chief Guest and Prof Sangeeta Jha delivered the Presidential Address.

Invited Lectures-

1)Dr Amy Cannon,Co-Founder and Executive Director,Beyond Benign,Wilmington,Massachsetta,USA-

Green Chemistry for Sustainable Development

2)Dr.Anindita Bhadra,Behaviour and Biology Lab.,Dept.of Biological Sciences,IISER,Kolkata-

Importance of Sustainable goals

3) Prof Dr D V Prabhu,Former Head and Adjunct Professor,Department of Chemistry,Wilson College (Autonomous) ,Univsity of Mumbai,Mumbai-

Role of Catalysis in Sustainable development

4) Dr Subarna Sivapalan,Head,School of Education,University of Nottingham,Malaysia-

Education for Sustainable development :Leaving no one behind

5) Prof Pankaj Das,Department of Chemistry,Dibrugarh University,Assam-Transition metal catalyzed dehydrogenation and hydrogenation reactions :Sustainable ways to synthesize value added organic chemicals.

6) Prof Soma Mukherjee,Head,Department of Environmental Science,University of Kalyani,Kalyani,West Bengal-Luminescent chemosensors for monitoring of environmental pollutants.

7)Dr Biswajit Dey,Department of Chemistry,Visva-Bharati,Santiniketan,West Bengal-A supramolecular benign hydrogel:Soft scaffold for exploring Nano,Bio and Nano-Bio applications.

8) Prof Brijesh Pare,Head.Department of Chemistry,Madhav Science PG College,Ujjain-The salient emerging technologies in Chemistry

9)Prof Ajeya Das, Department of Management Studies,SMIT,Sikkim-Emerging Green practices in Pharmaceutical industries

10)Dr Subhash Banerjee,Guru Ghasidas Vishwavidyalaya,Bilaspur,Chhatisgarh-Sustainable development of hybrid nanomaterials for organic synthesis

There were 30 oral presentations for which awards were presented for best presentations.

Messages were received from

1. Prof Dr John Warner,President and Chief Technology Officer,Warner-Babcock Institute for Green Chemistry,President,Beyond Benign,Distinguished Professor of Green Chemistry,Monash University,USA
2. Prof Javier Garcia-Martinez,President ,IUPAC
3. Bharat Ratna Prof C N R Rao,FRS,Honorary President and Linus Pauling Research Professor,Jawaharlal Nehru Centre for Advanced Scientific Research,Bengarulu and Honorary Member,ACT

The International Conference was supported by GP Globalize Research Journal of Chemistry (ISSN 2581 5911) published by Gaurang Publishing Globalize Pvt.Ltd.Mumbai.www.gpglobalize.in

2**) GLOBAL WOMEN’S BREAKFAST 2023** was organized on behalf of IUPAC on February 14 2023 at 55 institutions all over India.This is the highest number of events (13.5% of total events)from any country.Credit for this great achievement goes to Prof Vijendra Singh,National Coordinator,GWB and all ACT members who organized GWB in their institutions.

Since 2021,ACT has been promoting GWB in our country.

3)Teacher Training in Conceptual Chemistry and Physics on October 16-17,2022 at St.Vincent Pallotti E M School ,Pedana,AP by Prof Mannam Krishnamurthy.

The training programme was organized in collaboration with IAPT.

4)International Conference on Current Trends in Medicinal Chemistry on January 24-25,2023 at Saveetha University,Chennai by Dr R Gayatridevi

5)National Seminar on Chemistry of Environment and Salvation of Human Civilization on February 3-4,2023 at T M Bhagalpur University,Bhagalpur,Bihar by Dr Ashok Kumar Jha

6)One Day National Seminar and Inter Collegiate Chemistry Competition on “Ploymer Science from classroom to research to real world” on February 28,2023 at Acropolis Institute,Indore by Dr Pranoti Belapurkar

7)Workshop on Chemical aspects of Water on March 6,2023 at Intel High School,Perecharla,Guntur District ,AP by Prof Mannam Krishnamurthy

8)International Conference on Emerging Trends in Chemistry on March 16-17,2023 by Prof Sanchay Jyoti Bora at Pandu College and Assam Don Bosco University,Guwahati,Assam

9)International Conference on Role of Basic Science for Sustainable Future on March 27-28,2023 by Prof Sanjay Kumar Choudhary and Prof Prem Mohan Mishra at University Department of Chemistry,LNM University,Darbhanga,Bihar

10)National Conference on Materials and mathematical Sciences on March 30-31,2023 by Dr C Ramalingan at School of Advanced Sciences,Kalasalingam Academy of Research and Education,Krishnankoil,Virudhunagar,Tamil Nadu

3) NATIONAL SCIENCE DAY CELEBRATIONS were organized on February 28,2023 at

i)STEM School ,Guntur by Prof Mannam Krishnamurthy

ii)IPL Bhaskar Bhavan School,Nidamariru,AP by Prof Mannam Krishnamurthy

iii)Departments of Life Sciences and Biotechnology and E-YUVA Centre,Career College,Bhopal

iv) Government Excellence Higher Secondary School,Ujjain by Prof Yogendra Kothari

**4) CONCEPT TEST IN CHEMISTRY FOR BSc STUDENTS(CONTECH) 2022-2023** Phase 2 was conducted at several centres all over the country on February 25 2023 under the inspiring leadership of Prof Subhash Prasad Singh,National Coordinator CONTECH.

5) ACT Newsletter is being published regularly under the Chief Editorship of Prof Wasudeo Gurnule and uploaded on the ACT website

6) ACT Membership-Life Members – 2530

Institutional Members -20

Dr D V Prabhu,

General Secretary,Associaton of Chemistry Teachers