

# 1<sup>st</sup> INTERNATIONAL

## WEBINAR:

# "NEW HORIZONS OF CHEMISTRY"



### Key Speakers

June, 19<sup>th</sup>, 2020:

SESSION I : 11.00 A.M. IST



**Dr. Barik Atanu**

Scientist, Radiation & Photochemistry Division,  
BARC, Mumbai, India

SESSION II : 3.15 P.M. IST



**Prof. Muthupandian Ashok Kumar**

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Chemistry has now really diversified, with new break through enriching the subject once and for all. Its branches now encompass various fields, starting from spectroscopy to sonochemistry, nano chemistry, supramolecular chemistry, green chemistry, environmental chemistry, bio-inorganic chemistry, flow chemistry, quantum chemistry, surface chemistry, cluster chemistry, polymer chemistry, nuclear chemistry, and so on, with the list never ending and pivoting the subject to new levels of excellence and enrichment. In this webinar our endeavour would be strictly focused to bring forward some of the advances incurred in some of the traditional as well as the non-traditional branches of the subject.

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For Registration (FREE) please follow the link:

<https://docs.google.com/forms/d/1LVRDl2ca5BIde2iZf16KelolvrNEfUCyUKykYIECqzM/edit>

LAST DATE for Registration: 17<sup>th</sup> June, 2020

(Registration restricted to 300 participants only on the basis of first-come-first-serve basis)

Webinar Weblink will be shared on 18<sup>th</sup> June, 2020.

E-certificates will be e-mailed on request. For further query contact:

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Dr. Krishna Biswas	Assistant Professor	Maharaja Manindra Chandra College	Inorganic Chemistry	kbiswas202@gmail.com	9433905631
Vikas Jain	Associate professor	Bareilly College , Bareilly	Chemistry	jain.vikas2812@gmail.com	9456670046

Dr.Rajeev Kumar Sharma	Assistant professor	D . S. College, Aligarh	Chemistry	rajeev25chem@gmail.com	9457659600
DR. SANJOY DHARA	Associate Professor	Santipur College Government degree college, kursanda,sadabad, Hathras, UP	Analytical Chemistry	sanjoybsda@yahoo.co.in	7908595670
Dr. Rekha Suman	Assistant professor		Attended webinar	rekhaskb017@gmail.com	9758121017
Sampurna sarkar	Student	Bidhan chandra college	Bsc.zoology.(program)	Sampurnasarkar653@gmail.com	861762336
HOSSAIN UZ ZAMAN	STUDENT	BANKURA UNIVERSITY	Physics	<u>hossainuzzaman90@gmail.com</u>	9734721961

### FEEDBACK Report:

Email Address	Full Name	Institution	Your take home message from Dr. Atanu Barik lecture	Your take home message from Prof. Muthupandian Ashok kumar lecture	How was the Webinar?	Any Comment
ghosh.kanika7@gmail.com	Kanika Ghosh	Bidhan Chandra College, Asansol,WB,India	Clear photo-chemical aspect of inorganic-molecules	Concept on ultrasonic synthesis of nano- and biofunctional materials	Excellent	Creative efforts
babai75@rediffmail.com	CHANDRACHUR DAS	BIDHAN CHANDRA COLLEGE, ASANSOL, INDIA	interesting	Fascinating	Excellent	Keep it up.
sutapashuchi1@gmail.com	DR. SUTAPA ADHIKARI	Bidhan Chandra College, Asansol	Chemistry has advanced	Chemistry has progressed	Excellent	It was good
pradip_maji@yahoo.co.in	Pradip Kumar Maji	Bidhan Chandra College	Excellent presentation	Nice and informative lecture	Excellent	Thank you for organizing such effective webinar.
sujitkbera@gmail.com	Sujit Kumar Bera	Bidhan Chandra College, Asansol	very good	Excellent	Excellent	
kousikkumardubey1234@gmail.com	KOUSIK KUMAR DUBEY	BANWARILAL BHALOTIA COLLEGE	Very nice lecture	Very nice lecture	Excellent	



sauravranjan.das@bcrec.ac.in	Dr. Saurav Ranjan Das	Dr. B.C.Roy Engineering College	Good Research Work	Excellent Presentation and research work, a new horizon of chemistry	Good	PPT sharing could be very much helpful
sudipb.hkc@gmail.com	SUDIP BHATTACHARJEE	NIT DURGAPUR	Yes	Yes	Good	
amritsepistles@gmail.com	Amrit Krishna Mitra	Government General Degree College, Singur	The content and the subject matter	The diction and the subject matter	Excellent	Wonderful experience
kartikey.singh82@gmail.com	Kartikey Singh	Indian Institute of Technology Bombay, Mumbai	Nice & Informative	Informative & excellent	Excellent	
biswarupghosh541@gmail.com	BISWARUP GHOSH	Banwarilal Bhalotia College, Asansol	Yes.	Yes.	Excellent	Excellent Seminar.
swaruptaraivu@gmail.com	SWARUP KUMAR TARAI	NIT DURGAPUR	Yes	Yes	Excellent	
Kartickc.bhowmick@visva-bharati.ac.in	Kartick Chandra Bhowmick	Visva-Bharati University	Lucid and informative session	Ultrasound assisted simple synthesis of nanomaterials has been presented elaborately	Excellent	Similar webinar is expected from the college in future.
kmnandi@gmail.com	KARTIK KUMAR NANDI	B. K. C. College, Kolkata-700108.	Very good	Excellent presentation of extraordinary research of Chemistry.	Excellent	Ok
drreetugcg@gmail.com	Reetu gupta	Ganjdundwara College ganjdundwara, kasganj	Yes	Yes	Excellent	No
sinhha.trayee@gmail.com	Trayee Sinha	Bidhan Chandra College, Asansol	Relevant to the recent trends in the field of chemistry.	Recent developments in chemical experiments which explores the new horizon of chemistry	Excellent	Hope to be enlightened through such webinars from this department in future
sidhart29@gmail.com	Siddhartha Singh Deo	Banwarilal Bhalotia College, Asansol	Spectroscopy and applications in biomolecule characterization	Effect of ultrasound on molecules and atoms, nanoparticles production by sonication	Excellent	Good internet connectivity can be requested from the speakers.
fatik.bandyopadhyay@gmail.com	Ankita Bandyopadhyay	Banwarilal Bhalotia College	It was an amazing lecture. I get to learn the concept very clearly.	It was also a beautiful lecture delivered by respective Sir. We will be very thankful if another lecture can be organized.	Excellent	Please held another webinar. It will be great opportunity to hear from them once again on different topic.
rounakchakraborty24@gmail.com	ROUNAK CHAKRABORTY	JADAVPUR UNIVERSITY	Gained knowledge in new branches of Chemistry and research projects and future prospects of this new branches.	Learned new applications in Chemistry	Good	

habibar_hs@yahoo.co.in	Habibar Chowdhury	Kabi Nazrul College, Murarai, Birbhum, WB	Very informative and interesting	Excellent Presentation	Excellent	Well organized webinar
kantamohankisku@gmail.com	KANTAMOHAN KISKU	PANCHMURA MAHAVIDYALAYA	Very much informative	Very much relevant	Excellent	Well organized.
rituparnazblue@gmail.com	RITUPARNA BHADURI	National Institute of Technology Durgapur	Overview of different spectroscopic analysis (UV and fluorescence) of complexes	Catalysis chemistry	Excellent	
sukalpa.dey@bcrec.ac.in	Sukalpa Dey	Dr. B. C. Roy Engineering College, Durgapur, W. B.	Good Research Work.	Nice Presentation as well as Good Research Work.	Excellent	
tapansi68@gmail.com	Tapan Kumar Si	Bidhan Chandra College, Asansol, W.B	Very good lecture and encouraging for students community	Very interesting and excellent talk.	Excellent	Good initiative.
biswarupmandal75@gmail.com	Biswarup Mandal	Sitananda College Nandigram Purba medinipore	It was fantastic... Showed different wings of research which is really helpful for faculty, students..	It was also very informative and inspiring lecture for the researcher for their further research work	Excellent	I am very lucky to be a Participant of such a great effort of B C College, Asansole. Thank u all
pragatishaw98@gmail.com	PRAGATI KUMARI SHAW	B. B. COLLEGE, ASANSOL , W.B.	Yes	Yes	Excellent	
tarunroy.125@gmail.com	TARUN ROY	NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR	overview of different spectroscopic analytical techniques to study complexes.	Learn about crystal chemistry	Excellent	
joyeeds@gmail.com	JOYEE DAS	Bagnan College	Interaction from metal ion with any substrate can be observed qualitatively and quantitatively through UV and fluorescence spectroscopy.	How to synthesize materials by using ultrasound and application of sonochemistry to material, food and dairy industry.	Excellent	No
saugata.konar@gmail.com	Dr.Saugata Konar	The Bhawanipur Education Society College	Excellent	Excellent	Excellent	
ajay.rajawat329@gmail.com	Dr. Ajay Kumar Rajawat	R.B.S College Agra	Nice informative	Very valuable	Excellent	Excellent experience

epsitpaul2017@gmail.com	EPSIT PAUL	BANWARILAL BHALOTIA COLLEGE	Wonderful ! I really like this valuable lecture of Sir and I have benefited a lot from it.	Amazing ! I really like this valuable lecture of Sir and I have learned a lot through this lecture and I have benefited a lot from it.	Excellent	I thank you for organizing such a wonderful International Webinar, I have benefited a lot and learned a lot. I hope to have the opportunity to participate in the next webinar! Thank you!
Saikatusername@gmail.com sudiptosuri@gmail.com	Saikat Mandal Sudipta Saha	National Institute of Technology Durgapur Trivenidevi Bhalotia College Raniganj	Good General Concept of Photochemistry	Good Basic concepts of Ultrasound mediated reactions	Good Excellent	Good Please arrange webinar in the regular intervals
pribatta@gmail.com	Dr. Prithwiraj Byabartta	Jogesh chandra Chaudhari College, Kolkata	Yes	Yes	Excellent	Very interesting and informative
smanna2007@gmail.com	Swarup Manna	Brahmananda Keshab Chandra College	Explanation and application of spectroscopy in a simple way	exploring new horizons in chemistry	Good	It was nice except some technical glitches.....
koyel.misra@nshm.com sharmaavayranjan@gmail.com	Koyel Misra NISHANT KUMAR SHARMA	NSHM Knowledge Campus Durgapur Bidhan Chandra college Asansol	Got concepts Quite informative	Benifited Came aware of many new thing	Excellent Excellent	No
hena_paul84@rediffmail.com	Dr. Hena Paul	Krishna Chandra College, Hetampur	This lecture is very useful to teach the undergraduate students about fluorescence spectroscopy. Very nicely explained how the metal complexes affect the fl intensity.	This was really very interesting and informative lecture. The most interesting part was the 'Use of nanoparticle to increase the flavour of chocolate'. I have got some idea of sonochemistry and also nanochemistry.	Excellent	This type of webinar is really very useful in this hard situation. Thanks to the organizers and to the honourable speakers also.
anwesa.1@rediffmail.com	Dr. Anwesa Chaudhuri	Lady Brabourne College, Kolkata	We all should have a clear idea on Microsoft ppt before delivering a lecture. However, the topic was interesting.	Physical chemistry- New horizons.	Good	Good organization and impressive hosting.
ananya.ch6@gmail.com	Ananya Chaudhuri	Sidho-Kanho-Birsha University	Various aspects of photochemistry	New perspectives of physical chemistry	Excellent	Nicely oraganised and second technical session was good

ashome9@gmail.com	Dr.Anshupriya Shome	Brahmananda Keshab Chandra College	He lucidly explained the basic principles of emission spectroscopy. His work on Coumarin-Cu based complexes, their characterisations and applications are really interesting.	He beautifully explained how ultrasonic sound can be utilized to synthesize nanoparticle. With time change in bubble shape is very interesting. It is a greener method compared to conventional chemical methods. The video he has shown has made his explanations much more understandable. The applications of core-shell nanoparticles seemed to be very interesting to me as well.	Good	
abhikjoydhar@gmail.com	ABHIK JOYDHAR	BIDHAN CHANDRA COLLEGE, ASANSOL	USEFULNESS OF PHOTOCHEMISTRY	DIVERSE OUTLOOK OF PHYSICAL CHEMISTRY.	Excellent	SECOND TECHNICAL SESSION WAS IMPRESSIVE.
anamitra279@gmail.com	Anamitra Basu	The University Institute of Technology, The University of Burdwan	new horizons have opened a doorway to us for future	research and development in all aspect is going to lift to a new dimension	Good	
gorai_soma@rediffmail.com	Soma Gorai	Asansol Girls' College	Gathered knowledge about the procedure of MTT assay and gain other spectral information etc.	Gathered knowledge about emulsion polymerization and about sonochemistry	Excellent	
sbasu1002000@yahoo.co.in	Dr. Semanti Basu	Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly West Bengal	Dr. Atanu Barik's lecture enlightened me	Dr. Ashok Mukhopadhy's lecture enlightened me	Good	Please arrange this type of webinar in future
rsmmed001@gmail.com	Roni Sarkar	South Calcutta Girls' College	Photochemical reactions can overcome large activation barriers and allow reactions which are inaccessible by thermal processes.	The effects of phenomena of sonochemistry includes substantial improvements in both stoichiometric and catalytic chemical reactions.	Excellent	
biplabmon1980@gmail.com	Dr. Bipla Mondal	Hooghly Women's College	Nice presentation and also valuable to all	Nice lecture and also valuable	Good	Thanks to Organizing committee

priyankashaw966@gmail.com	Priyanka Shaw	Banwarilal Bhalotia College	No	No	Excellent	I would like to be part of such webinar again and again.
samirmaji@rediffmail.com purabighosh1999@gmail.com	Samir Kumar Maji purabi ghosh	Ramananda College Bishnupur Bankura Durgapur women's college	Very relevant Very nice and very knowledgeable	Very informative Awesome webinar learnt many new and interesting facts	Good Excellent	Well organized We are waiting for next open webinar for us in new interesting topics. Thank you
samarsarkarasansol@gmail.com	Susmita Sarkar	Bidhan Chandra College. Asansol	Use of spectroscopy and nano chemistry in cellular level.	Uses of ultrasonics and sonochemistry , which opens a completely new horizon in the field of experiments and research on reactions of chemical science.	Excellent	
hira7053@gmail.com	Dr Raka Biswas	Narasinha Dutt College	Good, lucid presentation	Great presentation	Excellent	Wonderful, enriching experience!
debashree1981@gmail.com abhikjoydhar2010@gmail.com	Debashree ABHIK JOYDHAR	Tarakeswar Degree College IGNOU	Yes Usefulness of photochemistry.	Yes Diverse outlook of physical chemistry.	Excellent Excellent	No Second technical session was impressive.
som.ipsita@gmail.com	Ipsita Som	National Institute of Technology, Durgapur	spectroscopy should be done for identification of molecule	spectroscopy should be done for identification of molecule	Good	
cmondal15@gmail.com	Chanchal Mondal	Mathabhanga College	It's inspiring. He gave some elementary idea about fluorescene and spectroscopy which directly benefits those, newly in that research field.	Sonochemistry is always a fascinating topic being a part of green chemistry. It's highly interesting. I will try to implement his perspectives, if get any oppotunity, for the synthesis of nanoparticles through a green approach.	Excellent	It's a wonderful webinar. Thanks to the organizing committe of BC college, Asansol. It feels great to be a part of the inspiring and motivating sessions.

dn.sisir@gmail.com	Sisir Debnath	Serampore College	The fluorescence on off property of Esculetin molecule was nicely shown by Cu (II) and glutathione. I think the interesting observation was fluorescence regeneration was selective for glutathione and not other dithione.	Untrasound can easily be used to control the size and shape of gold nanoparticle by imulsification of oil using ultrasound followed by nanoparticle synthesis in that emulsion. The video was very much helpful to understand the whole process.	Excellent	
chakrabortyriku20@gmail.com	SWARNALI CHAKRABORTY	Banwarilal Bhalotia College	In this session I learn the application of sprectroscopic methods as well as interaction of cu ion with esculetin . I also come to know how these methods use in cellular level to detect various types of harmful object like glutenthione. I also learn about their harmful effect to. We also learn about various research opportunities like Summer research programm by BARC and other research institutes	It was a very informative session and we came to know about Sono Chemistry which is really a new horizon of chemistry. We learn how Sono Chemistry connect with nanotechnology and how it can be helpful in pharmaceutical industry as well as various medical purpose. Of course it is a very new topic and mostly in research level but as a chemistry student I would like to venture about it in future.	Excellent	Hope to see this type of informative session in future . Thank you Bidhan chandra college for this opportunity.
vasudeviiser@gmail.com	VASUDEV MITTAL	Indian Institute of Science Education and Research Mohali	How to Chemical Science for benifit of humanity	Various applications of Chemical Science.	Excellent	None
subhankar.iacs@gmail.com	Subhankar Sardar	Bhatter College, Dantan	Variius aspects of fluorescences and antioxidants	Effects of ultrasonic and micro waves in chemistry and high pressure processing	Excellent	Thank you to the organisers for arranging such beautiful webinar.

anwesa.1@rediffmail.com	Anwesa Chaudhuri	Lady Brabourne College, Kolkata	We all should have a clear idea on Microsoft ppt before delivering a lecture. However, the topic was interesting. Very good	Physical chemistry- a new horizon Very good	Good Excellent	Well organized and impressive hosting. Nice
goutamhazra1@gmail.com priyanka.mukherjee@nshm.com	Goutam Hazra PRIYANKA MUKHERJEE	Kalna College NSHM KNOWLEDGE CAMPUS, DURGAPUR	Very informative	Very interesting	Excellent Excellent	
alkadevmittal@gmail.com	ALKA AGARWAL (MITTAL)	Meerut College, Meerut	Application of Chemical Science	How to use chemical science for humanity	Excellent	
arabindaju@gmail.com	ARABINDA MANDAL	Bidhannagar College	Fantastic lecture, helpful for academic purpose.	Nice lecture, learn new concept and new thought.	Excellent	Thank you for organising such a nice seminar.
sabyasachita23@gmail.com	SABYASACHI TA	Indian Institute of Technology Bombay	It was a good experience for me.	Useful for me and my research work.	Excellent	Such platform are really essential for science during this crisis. Thank you for informing me.
tukai.sr@gmail.com	Sreenita Ghosh	Bidhan Chandra College, Asansol	Though from a different field of biology, I found this seminar really informative. Presenter was very knowledgeable and presented the whole session interestingly with advance information.	Great session. Extremely informative seminar and would be very helpful for all young investigators. The concept presented will definitely be incorporated into my resources.	Fair	Experience two wonderful sessions. Thank you.
hazra.ashoke@gmail.com	Ashoke Hazra	A.K.P.C Mahavidyalaya, Bengai, Hooghly	This type of Webinar seminar enriches us more and more. Very good thinking.	Excellent lecturer. Variety of chemistry related things enriches us as well as students.	Good	Concept of Webinar seminar is a great effort. Excellent.
abhisekjana1994@gmail.com	Abhisek Jana	NIT Durgapur	Good lecture	Good lecture	Good	

abhisek.sao123@gmail.com	ABHISEK SAO	BANWARILAL BHALOTIA COLLEGE	Dr Atanu Barik sir's lecture was so interesting. Here I came to know about GSH(Glutathione), relation between GSH and fluorescence intensity. I get knowledge about many research programs and their facilities, career opportunities at BARC.	Prof. Muthupandian Ashokkumar sir's lecture was awesome. It was so informative as well as interesting. Sir delivered lecture on 'Ultrasonic synthesis of nano-and biofunctional materials' which includes synthesis of Gold nanoparticles, Methanol Fuel Cell, Edible microballons etc.	Excellent	Thank You for giving me the opportunity to participate in this webinar. This webinar was too much informative.
debashisba@gmail.com	Dr Debashis Banerjee	Chandernagore College, Chandannagore, Hooghly	Severe connectivity problem: not well organised: discussion on specific research area will not serve the purpose: rather a detail discussion on various aspect of spectroscopy and their applications would be more meaningful.	Well organised presentation...	Fair	Very good attempt by the organiser : if they may arrange a series of webinar covering various topics on UG and PG syllabus, it would be more helpful for both the students and teachers.
amal.chakrabarti@nshm.com	Prof. Amal Kumar Chakrabarti	NSHM Knowledge Campus, Durgapur	yes	yes	Excellent	very informative session
udaychandsaha@gmail.com	UDAY CHAND SAHA	INDAS MAHAVIDYALAYA , INDAS , BANKURA	GOOD	GOOD	Excellent	OVER ALL EXCELLENT
dutta3169@gmail.com	Soumit Dutta	National Institute of Technology Durgapur	Spectroscopy study should be carried out for identification of molecule	Spectroscopy study should be carried out for identification of molecule	Good	
Sampurnasarkar653@gmail.com	Sampurna sarkar	Bidhan chandra college, asansol	Good	Good	Excellent	Good webinar
sumabi450@gmail.com	Abhishek Sutradhar	Bidhan chandra college ,Asansol	No	No	Good	Seminar was fair enough..Lot to know about unknown things.



mynamesumitavakhan@gmail.com	Sumitava Khan	Burdwan Raj College	Nice lecture	Really nice presentation and I also gathering some knowledge about Nano partical synthesis by using sound wave. It is new Avenue for me because I have no idea about Nano particle synthesis by this way	Excellent	
Pradipkumartapaswi@gmail.com	Pradip Kumar Tapaswi	Narasinha Dutt College	Work hard	Good lecture	Good	Thanks for organizing the Webinar
zoosagarasn1@gmail.com	Sagarika Mukherjee	Bidhan Chandra College Asansol	As I am not from Chemistry background, I thought that I may not understand , but surprisingly his talk was about techniques of spectroscopy. Being a biology student, we use this technique frequently. So to learn more about this is very important to me.	Previously I have heard about Nano particles. But I'm yesterday's session I got a clear picture of this and its chemical structure, nature etc.	Excellent	
mominulsinan@yahoo.co.in hossainuzzaman90@gmail.com rajeevran7@yahoo.com	Mominul Sinan HOSSAIN UZ ZAMAN Rajeev Ranjan	Charuchandra College BANKURA UNIVERSITY DSPM University, Ranchi	Missed Yes Yes	Nanoparticle's application Yes Yes	Good Good Excellent	Thanks to all the team members of B C College, Asansol.
patitbu99@rediffmail.com	Patit Paban Malik	B.B. College, Asansol, WestBengal, India	Radiation effect on human medicinal chemistry Yes	Ultrasonic effect in chemical reaction Yes	Excellent Good	
gkjana38@gmail.com Kanchanmandal760@gmail.com sreemanta.sarkar@gmail.com	Goutam Kumar Jana KANCHAN MAMDAL Sreemanta Sarkar	Asansol Girls College Bidhan Chandra College ,Asansol Bidhan Chandra College	No Have to be explore the new horizons of chemistry	No Have to travel to new areas to utilise chemistry for the development of mankind	Excellent Excellent	No No

washim.raja89@gmail.com	Washim Raja	Turku Hansda Lapsa Hemram Mahavidyalay	Copper complex of esculetin, a dihydroxycoumarin, was synthesized with an aim to study the interaction with ct-DNA. It may provide useful information to assist in the design of new metal complexes having enhanced biological activity.	Dairy processing provides acceptable safety and shelf-life to final products, and improves their bioactivity.	Excellent	
aishwarya.chemistry@gmail.com	Dr. Aishwarya Mukherjee	Hooghly Engineering and Technology college	A new era of chemistry is opened up now. Multidisciplinary work should be done.	Multidisciplinary work should be done.	Good	
mbasu_100@yahoo.com	Manasi Basu	Brahmananda Keshab Chandra College	Technical glitches but overall good inspiration for students	Very interesting toping regarding sound acoustics	Fair	Good keeping aside the technical glitches
kamalchem.roy@gmail.com	Kamalika Sen	University of Calcutta	Mechanism of molecular interactions using photochemistry is fascinating	Use of nanoparticles in alloying and generating food supplements is interesting	Good	
riyamaharaj349@gmail.com	Riya	Barnwalilal Bhalotia collage ,Asansol	Accure lot of knowledge About Radiochemistry..	Literally best ever presentation about sonochemistry, basically the nanochemistry part is awesome.. Which I thought to make a carrier on it	Excellent	Very helpful seminar.. I would like to thank all of the organiser and requested to arrange more international seminar like that which feed our knowledge.. Thank you
mondal31rahul@gmail.com	Rahul Mondal	Bidhan Chandra College	Outstanding	Outstanding	Excellent	
anjanajadon83@gmail.com	DR. ANJANA JADON	Government Girls Degree College Chhibramau Kannauj	Informative	Knowledgeable	Excellent	Nil
samimakhtar00@gmail.com	Sk Md Samim Akhtar	Bidhan Chandra College, Asansol	A deep understanding of Cu-esculetin complex.	Highly insightful talk on Sonochemistry.	Excellent	Overall, experienced a fruitful webiner. Expecting more like this in future.

rekhaskb017@gmail.com	Dr. Rekha suman	Government degree college,kursanda,sadabas,Hathras,UP	Very interesting and knowledgeable lecture	Very knowledgeable and useful, interesting	Good	
Bapiacharya16@gmail.com	Suraj acharya	Bidhan chandra college	No	No	Excellent	Extremely good webinar
adwaita_bwn@yahoo.com	Adwaita Mandal	Syamsundar College	Good	Excellent	Excellent	No
kantulaik@gmail.com	Subhajit laik	Bidhan Chandra College	No I have nothing to say	No I have nothing to say	Excellent	Excellent webinar
anantachem17@gmail.com	Ananta Kumar Ghosh	Burdwan Raj College	Good lecture	Good lecture	Good	Good effects by the organizing committee of B.C College
pnibedita11@gmail.com	Nibedita Pradhan	IIT Kharagpur	comprehensive description of fundamentals, methodology and application of spectroscopy in biosensing application.	As a researcher for me, it was a classic introductory lecture on sonochemistry full of knowledge, information, and novelty and obviously a scope for hearing from a stalwart of this field.	Excellent	Thanks for organizing such an amazing webinar. Hope for more.
tghosh47@rediffmail.com	Dr. Tarun Ghosh	Aghorekamini Prakashchandra Mahavidyalaya	Solvent less synthesis	Green Chemistry is best	Excellent	Very good initiation
debolinamitra@gmail.com	Debolina Mitra	Rishi Bankim Chandra College	Studies done in conjunction of Chemistry with biology is opening new frontiers of experimentation each day.	Preliminary ideas of ultrasonics & sonochemistry should be incorporated to UG & PG curriculum	Excellent	None
abhijit.ghosh@bcrec.ac.in	Dr Abhijit K Ghosh	Dr B C Roy Engineering college Durgapur West Bengal	Use of UV-Visible spectroscopy to determine the structure of coordination complexes such as copper with Glutathionine	Fundamental and applied aspects of acoustic cavitation. Its varied uses in the field such as nanotechnology to produce Rhodium-Platinum alloys as electrodes in methanol fuel cells, food technology, etc.	Excellent	I would like to attend more such international webinars conducted by you.

sarkarhimadri256@gmail.com

Dr. Himadri Sekhar Sarkar Tohoku University, Sendai, Japan

Dr. Atanu Barik, a scientist in radiation and photochemistry division of BARC, shows us the basic of 'copper chemistry', which shows that Cu is found in the free metallic state in nature and possesses an unusually good conductor of electricity and heat. The later part of his presentation shows his recent research on the 'effect of Curcumin and Curcumin Copper Complex (1:1) on radiation-induced changes of anti-oxidant enzymes levels'. He shows some results about the radiation-induced decrease in the levels of GSH and total thiols, whereas there was an increase in the levels of catalase, GST and SOD compared to normal control. Under the influence of irradiation, both curcumin and complex treatment protected the decline in the levels of GSH, GST, SOD, catalase and total thiols, and inhibited radiation-induced lipid peroxidation. These

Prof. Muthupandian Ashok Kumar's lecture truly indicates a new horizon of chemistry. Introductory slides depicted the basic of fluorescence, which was indeed a good elaboration for the young students. The later part of his presentation was mainly based on applications of ultrasound in food and dairy ingredients (Sonochemistry) Sonophotocatalysis (Sonochemistry, Photocatalysis). His research group has also been exploring the use of ultrasound for synthesizing targeted drug delivery agents. In addition, they use ultrasound to generate efficient catalytic materials for wastewater treatment using alternative energy resources such as solar energy. Overall, his research team has developed a novel ultrasonic processing technology for improving the functional properties of dairy ingredients.

Excellent

I am very much thankful to Dr. F. Mukhopadhyay (Respected Patron-in-chief), Dr. P. K. Maji (Respected Convenor), Dr. S. Adhikary (Respected Co-ordinator), Dr. C. Das (Respected H.O.D, Dept. of Chemistry) and all the faculty members and staffs of B. C. College, Asansol, for giving me the opportunity to participate in this International Webinar. I am specially thankful to my senior Kanika di for providing me the information about the webinar. Thank you all.

observations may be due to the higher rate constants of the complex compared to curcumin for their reactions with various free radicals.

madhushree\_dassarma@yahoo.com

DR. MADHUSHREE DAS  
SARMA

ACHARYA PRAFULLA CHANDRA  
COLLEGE

Chemistry & Biology  
-Multi disciplinary  
approach should be  
adopted in current  
day research.

Preliminary ideas on  
sonochemistry should be  
introduced in UG and PG  
level of syllabus

Excellent

Very helpful and  
time relevant  
webinar

chem.rima@gmail.com	Dr Rima Das	Chandidas Mahavidyalaya, Khujutipara, Birbhum	Enlightenment in the areas of photochemistry was very interesting.	Such a nice presentation ... specially his lectures related to sonochemistry will help for future researchers.	Excellent	If possible .... international webinar for three day with chance of paper and e-poster presentation is expected in future.
duttaarpit.z16@gmail.com	Arpit Dutta	Bidhan chandra college	I have learnt about the copper ion interaction with esculetin with the help of spectroscopic methods. This session also made me learn about the florescence behaviour of esculetin and other relevant important information related to the topic.	This session made me learn about the ultrasonic synthesis of nano and biofunctional materials. I have learnt about the cavitation power and the synthesis of gold nanoparticles, methanol fuel cell and other aspects related to the topic.	Excellent	The session was very much informative and I have learned a lot. This was very much beneficial for students like me during the crisis period of global pandemic.
deb_mandal@yahoo.co.in	Debdas Mandal	Sidho- Kanho- Birsha University, Purulia	The lecture was very good.	The lecture was very good	Excellent	The Webiner was very good
haritha.nimmy@gmail.com	M Lakshmi Haritha Bharathi	Pondicherry University	Topic essence	Explanation	Good	It will be useful if recorded webinar is provided.

indranilhazra2014@gmail.com

INDRANIL HAZRA

BANKURA GOVERNMENT  
POLYTECHNIC

Here we have learnt about the "Spectrochemistry" which was in cellular level and we have also gained an idea about "Radioactivity" from the 1st International Webinar on "NEW HORIZON OF CHEMISTRY" held on 19th June 2020.

Here we have learnt about the "Methanol Fuel Cell" we have gained a knowledge about Sonochemical Reduction of Pt and Ru. Besides it, he has given his current research papers on Aquatic Cavitation, Wast Water Treatment, Food and Dairy processing, Sonoprocessing, Flavour and Nutrient, Encapsulation and Nano particles Synthesis. The most interesting project on yesterday is Synthesis of Gold Nano particles in Ar atmosphere.

Excellent

I think, it was a very helpful to all the students from every corner of our nation and also from abroad in this hard and terrible pandemic situation throughout the world. Thanks a lot from the core of my heart to them who had planned to programme such International Webinar for the welfare of the students.

ss394508@gmail.com

Sonali Sharma

Banwarilal Bhalotia College, Asansol

Sir, has given the brief knowledge about spectroscopy and photochemistry in very lucid way.

A lot of inspiration from him, I will try to become like him in future.

Excellent

A very interesting and knowledgeable webinar. Thank you for organizing this..

debjitmishra8@gmail.com	Shatarupa Mishra	Banwari Lal Bhalotia college	Here we have learned about spectrochemistry which uses in cellular level .And we have also gained a knowledge about coumari molecule and we have get an information about GSH from 1st international webinar on New Horizons of chemistry on 19th June in 2020....	Here have learned about Methanol Fuel cell . We have gained a knowledge about sonochemical reduction of Pt-Ru in PV .. Besides it he has introduced with current research projects of his University like acoustic cavitation , Functional biomaterials , waste water treatment, Food and diary processing , sono processing , Flavour and nutrient encapsulation and nano particles synthesis ... The most interesting project of yesterday that is synthesis of Gold Nano particles in Ar atmosphere ...	Excellent	I think it was a very helpful to all the participants from every corner of our nation and also from abroad in their hard and terrible pandemic situation throughout the world ..thanks a lot from core of my heart to them.. we had no planned about such international webinar for welfare of students....
surajit.jana@gmail.com Kajalkr873@gmail.com	Surajit Jana Kajal kumari	Asansol Girls' College Bidhan chandra college	Nice Came to know about the researches being in the field of chemistry	Good Came to know about the researches being in the field of chemistry	Good Excellent	
abiswas83@gmail.com	Arpita Biswas	Shibpur Dinobundhoo Institution (College)	Very good and informative lecture	Very good and informative lecture	Good	This type of Webner is fruitful for young researchers
dipakdeeptamsaha@gmail.com	Dipak Kumar Saha	Dinabandhu Mahavidyalaya, Bongaon	A lot of information about new horizons of chemistry.	How ultrasound is essential in our life	Excellent	Very nice and informative session
arsalanansari489@gmail.com	MD ARSALAN ANSARI	BANWARILAL BHALOTIA COLLEGE, ASANSOL	We all must keep curiosity for what we learn.	Chemistry is a wonderful subject.	Good	Webinar was good but due to connection problem it was not excellent.
leenabhawmik@yahoo.in	Dr.Leena Bhowmik	Asansol Girls' coolege	Very good lecture.	Very innovative and excellent work.	Excellent	Thanks to organizer.
ruplekharoy2000@gmail.com samirmandal2004@gmail.com	Ruplekha Roy Samir Kumar Mandal	Asansol girls college Saldiha College	Nothing Good learning	Nothing Good learning	Good Excellent	Nothing Helped a lot



nilam.singh649@gmail.com	Nilam Sing	Vivekananda Mahavidyalaya, Burdwan.	Different ways of research work with copper etc.	Application of nano particles, formation of bubbles etc.	Excellent	I like this type of Webinar.
amal.halder1@gmail.com	Dr. AMAL HALDER	SREEGOPAL BANERJEE COLLEGE	General Concept of Photochemistry	Ultrasound assisted Chemical Reaction	Good	
snigdhabbc15@gmail.com	Dr. Snigdha Roy	Banwarilal Bhalotia College, Asansol	Sorry I could not join into this session	Sonochemistry and its application	Good	Informative discussion and well organized webinar
chandrina321@gmail.com	Rina chand	Bidhan Chandra college asansol	Here we learn about spectro chemistry and it's uses	Here we learn about sono chemistry and it's uses	Fair	
animeshdawn1453@gmail.com	Animesh dawn	Triveni devi bhalotia college	Very nice webinar	Thanks for conducting such a nice and knowledgeable webinar	Excellent	We are hoping for this type of webinar
p_naki@rediffmail.com	Dr Pinaki Mandal	Bankura Sammilani College	.	.	Excellent	.
fatik.bandyopadhyay@gmail.com	ANKITA BANDYOPADHYAY	BANWARILAL BHALOTIA COLLEGE	YOUR LECTURE WAS AWESOME. LEARNT A LOT. WILL BE GLAD TO HAVE YOU BACK.	I ENJOYED IT A LOT. IT WAS NICE TO HEAR LECTURE IN THIS QUARANTINE SITUATION.	Excellent	PLEASE ARRANGE ANOTHER ONE.
sgswagata@gmail.com	Swagata Sarkar	Kulti College	It was informative	Chemistry can do wonders	Good	
apurbaphysics3@gmail.com	APURBA PARAMANIK	Bidhan Chandra College, Asansol	Very nice	Very nice	Excellent	All Good
moumita.mondal@nshm.com	Moumita Mondal	NSHM Knowledge Campus, Durgapur, Westbengal	Excellent Speech	Mind blowing Speech	Excellent	We want this type of webinar again for our Knowledge.
nikhatkhan93333@gmail.com	NIKHAT PERWEEN	Asansol Girls' College	Here we learn about spectro chemistry and its use in cellular level.	From Ashok Sir we got knowledge regarding Sonochemistry and its uses and also it opens a new horizon in chemical researches and experiment.	Excellent	No
das7joydeb202@gmail.com	Joydeb Das	Sreegopal Banerjee College	General Concept of photo chemistry	Ultrasound assisted chemical reaction	Excellent	Thank you for arranging this type of seminar.
sanjoybsda@yahoo.co.in	DR. SANJOY DHARA	SANTIPUR COLLEGE, SANTIPUR, NADIA.	Very good and helpful lecture	Ivery nteresting lecture	Good	More number of seminar should be required like this Global pandemic situation

subhambanerjee07082@gmail.com	SUBHAM BANERJEE	Banwarilal Bhalotia College, Asansol	Different kinds of radiation their properties and their uses in various feilds.	Properties of ultra sound their uses, their research feild. Properties of biomolecular nano particles t,their research feild and their industrial and medical uses.	Excellent	The webneir was very informative.
rajeev25chem@gmail.com	Rajeev Kumar Sharma	D. S. College, Aligarh	Good	Very informative sir	Excellent	That was very informative
nibeditakarmakar33@gmail.com	Nibedita Kar karmakar	Bidhan Chandra College,Asansol	Very excellent lecture	Very excellent lecture	Excellent	Excellent work of chemistry department,Bidhan Chandra College
mnsnji65@gmail.com	Manas Majee	Bidhan Chandra College	Chemistry is Amazing Subject	All He Said	Good	All good
amitbanerjee.n.us@gmail.com	Amit Banerjee	BC College	NA	NA	Excellent	NA
gbhmucburdwan@gmail.com	Gautam Bhattacharya	MUC Women's College, Burdwan	It is inspiring.	This lecture increased my knowledge on nanoparticle to a great extent particularly in using it in medicinal chemistry.	Excellent	This Webiner really provides a great opportunity to the participants to improve the quality of research of the participants.
zahinsaltana@gmail.com	Zahin Sultana	Uchcha Balika Vidyamandir	Sir provide useful information to assist in the design of new metal complexes having enhanced biological activity.	I got a very useful information and a proper guideline on sonochemistry, ultrasonics, cavitation, drug chemistry,sonoprocessing, food processing, sonoelectrochemistry	Excellent	I am very much thankful to B.C College for the opportunities given to me..
Goldigupta7940@gmail.com	Goldi	BC Roy College Asansol	Yes	Yes	Good	
aratipatar8512@gmail.com	Arati Patar	Bidhan Chandra College	No	No	Excellent	Very informative session
bholanath_@yahoo.co.in	Dr Bhola Nath Sarkar	Gushkara Mahavidyalaya	The presentation is very good and appreciating.	The topic is a very new one. It will be helpful to all kinds of participants. Personally I am very impressed from this lecture. It is really a new horizon one.	Excellent	The endeavour is highly appreciable.

dhakuriamit@yahoo.com	Amit Mondal	Brahmananda Keshab Chandracollege	Metal ligand interaction	a small bubble can produce tremendous amount of energy.	Excellent	Prof. Muthupandian Ashok kumar lecture was excellent
ramkju@gmail.com	Ramkrishna Das	Charuchandra College	Very informative and usefull lecture.	very usefull lecture	Excellent	not applicable
mahi_sdvb@yahoo.com mehriaalquadri@gmail.com	Sasadhar Majhi Dr. Syeda Mehria Murshed Al-Quadri	Triveni Devi Bhalotia College Aliah University, Kolkata	Yes We got an idea on nano particles in targeted drug delivery for todays life.also nano polymer uses in paint for better result.also we got an idea on flavoured confectionary product.	Yes We got an idea on nano particles in targeted drug delivery for todays life.also nano polymer uses in paint for better result.also we got an idea on flavoured confectionary product.	Excellent Excellent	Very good attempt Excellent webinar. Congratulations to all. Thank you.
syed.jsaq@gmail.com	DR.SYED MUSTAFA MURSHED JAMAL SHAH AL-QUADRI	Maulana Azad College,Kolkata	An idea of nano particle	An idea of Nani idea	Excellent	CONTINUE this type of webinar in future

Sample Certificate:



**BIDHAN CHANDRA COLLEGE**  
GOVT. SPONSORED & NAAC ACCREDITED  
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AFFILIATED TO KAZI NAZRUL UNIVERSITY

**1<sup>ST</sup> INTERNATIONAL WEBINAR  
ON  
NEW HORIZONS OF CHEMISTRY**

*This is to certify that*  
*of*  
*has participated in the 1<sup>st</sup> International Webinar on "New Horizons of Chemistry" organized by the Department of Chemistry, Bidhan Chandra College, Asansol, W.B., India on 19<sup>th</sup> of June, 2020.*

  
**DR. PRADI KUMAR MAJI**  
**CONVENOR**  
**B C COLLEGE**

  
**DR. FALGUNI MUKHOPADHYAY**  
**PRINCIPAL**  
**B C COLLEGE**

# Program Completion Report

Overview	
Programme Name:	1 <sup>st</sup> INTERNATIONAL WEBINAR ON NEW HORIZONS OF CHEMISTRY
Date of Programme:	19 <sup>TH</sup> JUNE, 2020
Organized by:	Department of Chemistry, Bidhan Chandra College, Asansol, W.B., India 713304
Convenor:	<b>Dr. Pradip Kumar Maji</b> , Bidhan Chandra College, Asansol, W.B., India.
Co-Ordinator:	<b>Dr. Sutapa Adhikary</b> , Bidhan Chandra College, Asansol, W.B., India.
Invited Speakers:	<b>Prof. Muthupandian Ashok kumar</b> Asst. Deputy Vice-Chancellor International, University of Melbourne, Deputy Head, School of Chemistry, University of Melbourne, VIC 3010, Australia. Editor-in-chief, Ultrasonics Sonochemistry. <b>Dr. Barik Atanu</b> Scientist, Radiation & Photochemistry Division, BARC, Mumbai, India.
Number of Participants:	177
Note: Registration was free	

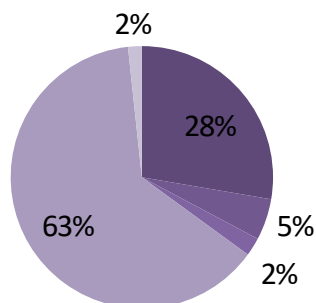
Chemistry has now really diversified, with new breakthroughs enriching the subject once and for all. Its branches now encompass various fields, starting from spectroscopy to sonochemistry, nano chemistry, supramolecular chemistry, photochemistry, femtochemistry, nuclear chemistry, cosmo chemistry and so on, with the list never ending and pivoting the subject to new levels of excellence and enrichment. In this webinar our endeavour would be strictly focussed to bring forward some of the advances incurred in some of the traditional as well as the non-traditional branches of the subject.

Our aim is to illuminate us with the new horizons of chemistry in the vision of our respected speakers. Now situation is really very hard due to Corona Pandemic overall the world. Still we are trying to engage and enlightened our beloved students by organizing such type of program. We had with us **Dr. Atanu Barik**, Scientist, Radiation & Photochemistry Division, BARC, Mumbai, India in the session I (11.15 am). & **Prof. Muthupandian Ashok kumar**, Asst. Deputy Vice-Chancellor International, University of Melbourne, Deputy Head, School of Chemistry, University of Melbourne, VIC 3010, Australia in the session II (3.15 pm) on 19<sup>th</sup> June, 2020.

We are very happy that one hundred seventy seven participants have joined with us (<https://docs.google.com/spreadsheets/d/14czJxrqchVpc6tOxaXyOY6JtxW4BRzNi5roCgOxsRk/edit#gid=564627116>).

### Participants

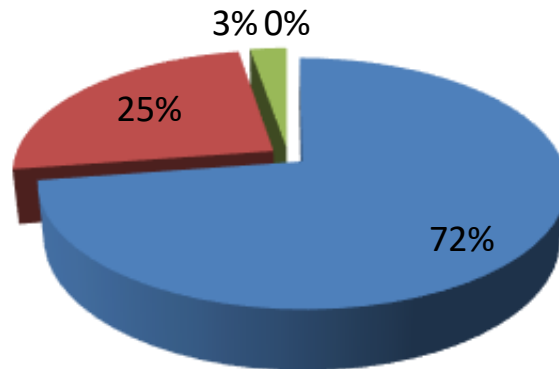
■ Student ■ Research Scholar ■ Postdoctorial Fellow ■ Faculty ■ Others



Respected participants have given their feedback via Google form. Their valuable comments are really encouraging for us. We will try to improve our drawback if we will organize such type of programme in future. (<https://docs.google.com/spreadsheets/d/1rzY8u-vU-BLB8eForZcusTMbu1oOmvZDwls6v1Qtrms/edit#gid=1769584145>)

### How was the Webinar?

■ Excellent ■ Good ■ Fair ■ Poor



Total no. Of responses: 146

Some of the comments from the respected attendant:

- I think, it was a very helpful to all the students from every corner of our nation and also from aboard in this hard and terrible pandemic situation throughout the world. Thanks a lot from the core of my heart to them who had planned to programme such International Webinar for the welf are of the students.
- Very helpful seminar. I would like to thank the organizer and requested to arrange more international seminar like that which feed our knowledge. Thank you
- Such platform is really essential for science during this crisis. Thank you for informing me.
- We are waiting for next open webinar for us in new interesting topics. Thank you
- Thanks for organizing such an amazing webinar. Hope for more.
- Hope to see this type of informative session in future. Thank you Bidhan Chandra College for this opportunity.
- This Webinar really provides a great opportunity to the participants to improve the quality of research of the participants.
- It was nice except some technical glitches.....