






Lecture Series on crystal Field Theory 17/08/2020-20/08/2020

 <p>RABINDRA MAHAVIDYALAYA Champadanga, Hooghly, West Bengal (Affiliated to The University Of Burdwan)</p>  <p>Lecture Series on " CRYSTAL FIELD THEORY " Organized by Department of Chemistry In Collaboration with Internal Quality Assurance Cell</p> <p>Registration is free</p> <p>Registration link: https://forms.gle/onEFtDh1ZE7NHPM39</p> <p>Webinar Platform: Google Meet Contact: rabiul.alam1950@gmail.com Ph. No: 8697977486</p>	<p>Patron</p>  <p>Dr. Prasanta Bhattacharyya Principal Rabindra Mahavidyalaya</p> <p>Advisor</p>  <p>Prof. Tanmay Bandyopadhyay IQAC coordinator Department of Commerce</p> <p>Speaker</p>  <p>Dr. Tarun Mistri Assistant Professor Department of Chemistry Jhargram Raj College West Bengal, India</p> <p><i>E- certificate will be issued to all the registered participants after submission of Feedback form . provided at the end of the Lecture Series</i></p> <p>Convener:: Dr. Rabiul Alam, Assistant Professor and Head, Rabindra Mahavidyalaya</p>
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Programme Objective:

Theme: Lecture Series on Crystal Field Theory

Platform: Online

Date: 17/08/2020, 18/08/2020, 20/08/2020

Organizer: Department of Chemistry

Speaker: Dr. Tarun Mistri (Jhargram Raj College)

Audience: Students of Semester III and V (Hons.)

Objectives:

- To make aware of current student about basic and modern research on CFT
- To encourage students to share their passion for science with an insight into modern research in a fundamental sense
- To explain the concept of the breaking of orbital degeneracy in transition metal complexes due to the presence of ligands. CFT also describes the strength of the metal-ligand bonds.

Report

Department of Chemistry of Rabindra Mahavidyalaya organized 3 days Lecture Series on Crystal Field Theory. The seminar was focused on the concept of the breaking of orbital degeneracy in transition metal complexes due to the presence of ligands. CFT also describes the strength of the metal-ligand bonds. CFT is based on the idea that when transition metals form complexes, the ligands interact with the metal's d orbitals. The seminar, hosted by Dr. Rabiul Alam (Departmental Faculty), began with the introductory speech given by resected Principal Dr. Prasanta Bhattacharyya and IQAC coordinator Prof. Tanmay Bandyopadhyay of the institution. Then Dr. Rabiul Alam gave a basic overview on recent advances in Crystal Field Theory. Dr. Tarun Mistri faculty of Department of Chemistry of Jhargram Raj College gave insightful lecture on crystal field theory. The session was very interactive where students have been quite enthusiastic, and all of their queries have been satisfactorily answered. 7 teachers (including Principal Sir, IQAC coordinator) and 2 non-teaching staffs were present in the seminar. Total 57 students were present. The seminar ended with vote of thanks by Dr. Rabiul Alam.

Lecture Series on 'Crystal Field Theory'
By **Dr. Tarun Mistri**
Assistant Professor in Chemistry
Jhargram Raj College
For B.Sc. (H) 5th Sem (C&GS) (Chemistry)
Lecture-2
Organizer: Rabindra Mahavidyalaya, Champdongo, Hooghly

Werner's Contribution At a Glance
A. Werner put forward a theory to describe structure & formation of coordination compounds or coordination compounds. This is because of the theory he got NOBLE PRIZE and is known as 'Father of Coordination Theory'. But what will be the nature of secondary valency that was lacking by his research.

Werner's Theory of the coordination compounds
• Alfred Werner (1866-1919)
• 1893, age 26, coordination theory
• Nobel prize for Chemistry, 1913
• Addition of a new law, the C&GS law

Transition elements exhibit two types of valencies, namely **primary valence** and **secondary valence**.

- The primary valence is also known as **ionizable valence** and secondary valence is otherwise known as **nonionizable valence**.
- Atoms can satisfy primary valence whereas atoms or neutral molecules can satisfy secondary valence.
- In modern terms, the primary valence corresponds to the **oxidation number** and the secondary valence corresponds to the **coordination number**.

* Secondary valences are represented by solid line and primary valences are represented by dotted line

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P.C Roy Seminar on 31-08-2020



RABINDRA MAHAVIDYALAYA

Champadanga, Hooghly, West Bengal
(Affiliated to The University Of Burdwan)



Webinar

on

" P.C. RAY MEMORIAL LECTURE "

Organized by
Department of Chemistry
In Collaboration with
Internal Quality Assurance Cell

Date and Time: 31/08/2020, 1.30 p.m - 3.30 p.m

Webinar is open to all & Registration
is free

Registration link:

<https://forms.gle/WnPNijq4SWc4i9nc8>

Webinar Platform: Youtube LIVE

Contact: rmvonlineacademia@gmail.com

Ph. No: 6294999635, 9382496053

Join our WhatsApp Group provided in
the Registration form

Registration Closed on 29/08/2020 at 9.00 p.m

E- certificate will be issued to all the registered participants
after submission of Feedback form . provided at the end of
the Webinar

Patron



Dr. Prasanta Bhattacharyya
Principal
Rabindra Mahavidyalaya

Advisor



Prof. Tanmay Bandyopadhyay
IQAC coordinator
Department of Commerce

Speakers

Dr. Rabiul Alam
Assistant Professor & Head
Department of Chemistry
Rabindra Mahavidyalaya
West Bengal, India



Dr. Debasmita Sardar
Assistant Professor
Department of Chemistry
Rabindra Mahavidyalaya
West Bengal, India



Convener:: Dr. Rabiul Alam, Assistant Professor and Head, Rabindra
Mahavidyalaya

Jt. Convener:: Dr. Sucheta Joy, Assistant Professor, Rabindra
Mahavidyalaya

Hosting and IT support :: Dr. Pranobi Porel, Librarian, Rabindra
Mahavidyalaya

Programme Objective:

Theme: To commemorate the birth anniversary of "*the father of Indian chemistry*" Sir Acharya Prafulla Chandra Ray who was a pioneer and figurehead of modern chemical research in India. He was remarkable scientist, literary figure, professor, industrialist, philanthropist and much more.

Platform: Online

Date: 31-08-2020

Organizer: Department of Chemistry

Inauguration: Dr. Sucheta Joy, HOD of Department of Chemistry, Rabindra Mahavidyalaya

Inauguration Speech: Dr. Prasanta Bhattacharyya, Principal, Rabindra Mahavidyalaya

1st Speaker: Dr. Rabiul Alam (Assistant Professor, Department of Chemistry , Rabindra Mahavidyalaya)

Topic: P. C. Roy Memorial Lecture

2nd Speaker: Dr. Debasmita Sardar (Assistant Professor, Department of Chemistry, Rabindra Mahavidyalaya)

Topic: “Synthesis, Structural Elucidation and Potential Applications of Nanoparticles and Hybrids”

Audience: Students of Semester III and V (Hons.)

Objectives:


- To make aware of current student about life of Acharya Prafulla Chandra Ray and modern research on Nanoscience and Nanotechnology
- A rise in students' self-assurance and intelligence
- To encourage students to share their passion for science with an insight into modern research in a fundamental sense
- To explain the concept of Nanoscience which is the study of matter and processes at the nanoscale. It's a combination of physics, materials science, and biology, and it involves manipulating materials at the atomic and molecular scales

Report

Department of Chemistry of Rabindra Mahavidyalaya organized a one-day webinar to commemorate birth anniversary of "*the father of Indian chemistry*" **Sir Acharya Prafulla Chandra Ray** on 31st August, 2020 via online mode. Dr. Sucheta Joy, welcomed everyone and gave opening remarks then the webinar began with the introductory speech given by respected Principal Dr. Prasanta Bhattacharyya of the institution. The technical session of the webinar was divided into 2 talks and was chaired by the head of the department Dr. Sucheta Joy. 1st talk, delivered by Dr. Rabiul Alam, paid homage to the legendary scientist and humanist, pioneer of Indian science, Acharya Prafulla Chandra Ray. The 2nd talk, delivered by Dr. Debasmita Sardar on synthesis, structural elucidation and potential applications of nanoparticles and hybrids. The question-answer session was very interactive where students have been quite enthusiastic, and all of their queries have been satisfactorily answered. 6 teachers (including Principal Sir) were present in the seminar. Total 107 students and 2 non-teaching staffs were present. The seminar ended with vote of thanks by Dr. Sucheta Joy.

StreamYard

P.C. RAY MEMORIAL LECTURE



By
Dr. Rabind Alam
Department of Chemistry
Rabindra Mahavidyalaya
Champadanga, Hooghly

Mahavidyalaya Webinar Series (No.-8) Organised by the Department of Chemistry and I

Rabindra Mahavidyalaya Webinar Series (No.-8)

Rabindra Mahavidyalaya Webinar Series (No.-8)

Synthesis, Structural Elucidation and Potential Applications of Nanoparticles And Hybrids

Presented by
Dr. Debasmita Sardar
Assistant Professor
Department of Chemistry
Rabindra Mahavidyalaya
Champadanga, Hooghly

Rabindra Mahavidyalaya, 31st August 2020

Speech by Dr. Debasmita Sardar, Assistant Professor, Department of Chemist

Rabindra Mahavidyalaya Webinar Series (No.-8)

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Q & A Session

Rabindra Mahavidyalaya Webinar Series (No.-8) on "P. C. Ray Memori

Rabindra Mahavidyalaya Webinar Series (No.-8)



RMV Online

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- SUDIP SAMANTA yes ma'am
- Mohana ok mam
- JEBANASRIN yes mam
- JEBANASRIN yes
- Chandan Das yes
- Kamelia RoyChowdhury wow.nice information mam.
- JAYANTI DAS yes madam
- ফকত ডায়রি yes mam
- Mohana ok mam
- JAYANTI DAS nice presentation madam
- Ritwicka Samanta ok mam
- JAYANTI DAS very informative..thank u madam..

Departmental Quiz & Cultural Program on 05-09-2020

Notice

DEPARTMENT OF CHEMISTRY

RABINDRA MAHAVIDYALAYA, CHAMPADANGA, HOOGHLY

Dated: 02/09/2020

NOTICE

It is hereby informed that “The Teacher’s Day” celebration will be held on 05/09/2020 via G-meet platform from 02:00 p.m. to 04:00 p.m. along with a Departmental Quiz Competition to celebrate the birth anniversary of **Dr. Sarvepalli Radhakrishnan** on the same day via G-meet platform from 02:00 p.m. to 04:00 p.m. All the students and teachers of the Department of Chemistry are instructed to participate in both programmes on that day.

Rabiul Alam 2/9/2020

Dr. Rabiul Alam
(HOD, Chemistry)



Principal
Rabindra Mahavidyalaya
Champadanga, Hooghly (W.B.)

Dr. Prasanta Bhattacharyya
(Principal)

Report

To acknowledge the contribution of teachers, the students of department of chemistry prepared a special assembly on September 5. They shared an invigorating “thought of the day” and paid their homage to former Indian president Dr Sarvepalli Radhakrishnan, on whose birthday Teacher’s Day is celebrated. The assembly commenced with a harmonious chorus song by students. Department of Chemistry of Rabindra Mahavidyalaya organized Quiz competition and Cultural program to commemorate birth anniversary of **Dr. Sarvepalli Radhakrishnan** on 5th September, 2020. Teachers’ day celebration program hosted by Sem-III Hons. Students via G-meet, began with the introductory speech given by respected Principal Dr. Prasanta Bhattacharyya of the institution. The Quiz competition session was hosted by Dr. Sucheta Joy and Dr. Rabiul Alam. Then Dr. Debasmita Sardar, Mr. Tanmoy Pandit and Mrs. Subhra Dholey monitored the whole session. The students performed various cultural activities like dance, song, recitation etc. A student of sem V also delivered a beautiful speech, reflecting on the value of teachers in their life. All the teachers, along with the principal, appreciated the performances of the students. The quiz session was very interactive where students have been quite enthusiastic. 6 teachers (including Principal Sir) were present in the seminar. Total 31 students including 20 male student and 11 female students and 2 non-teaching staffs were present. The seminar ended with vote of thanks by Dr. Rabiul Alam.

Programme Schedule

Theme: To commemorate the birth anniversary of **Dr. Sarvepalli Radhakrishnan**- Teacher's Day celebration

Venue: G-meet Platform

Date: 5th September, 2020

Time: 2.00 p.m. – 4.00 p.m.

Inauguration: Dr. Rabiul Alam, HOD of Department of Chemistry

Inauguration Speech: Dr. Prasanta Bhattacharyya, Principal

Technical Session: Quiz competition and Cultural program

Conducted by: Dr. Rabiul Alam (Assistant Professor, Rabindra Mahavidyalaya), Dr. Sucheta Joy (Assistant Professor, Rabindra Mahavidyalaya)

Vote of Thanks: Dr. Rabiul Alam, (Assistant Professor, Rabindra Mahavidyalaya)

Question-Samples of Quiz Competition

প্র: ক্যানসার নির্ণয় করার পদ্ধতির নাম কী?

উ: বায়োপসি।

প্র: লিউকোমিয়ার প্রধান উপসর্গ কী?

উ: রক্তে শ্বেত রক্তকণিকার সংখ্যা অস্বাভাবিকভাবে বৃদ্ধি ঘটা।

প্র: প্রাপ্ত বয়স্ক সুস্থ মানুষের রক্তচাপ কত?

উ: সংকোচী ও প্রসারী রক্তচাপ যথাক্রমে ১২০ মিলিমিটার ও ৮০ মিলি পারদ চাপের সমান।

প্র: রক্তচাপ পরিমাপকারী যন্ত্রটির নাম কী?

উ: স্পিগমোম্যানোমিটার (Sphygmomanometer)।

প্র: মানুষের দেহে মোট অস্থি সংখ্যা কত?

উঃ ২০৬টি।

প্র: মানুষের দেহে মোট পেশি সংখ্যা কত?

ଉ: ୬୦୯ଟି ।

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প্রঃ পশ্চিমবঙ্গের প্রবেশ দ্বার (Corridor) কোন জেলাকে বলা হয়?

উ: উত্তর দিনাজপুর জেলাকে।

প্র: পশ্চিমবঙ্গের প্রধান বিচারালয় কোনটি?

উ: কলকাতায় অবস্থিত হাইকোর্ট।

প্র: পশ্চিমবঙ্গের শিল্প নগরী কোনটি?

উ: হাওড়া।

প্র: উত্তর-পূর্ব ভারতের প্রবেশদ্বার কোন শহরকে বলা হয়?

উ: শিলিগুড়িকে।

প্র: বাংলার রূপকার কাকে বলা হয়?

উ: ডা: বিধানচন্দ্র রায়কে

প্র: পশ্চিমবঙ্গের সবচেয়ে বড় সীমান্ত কোন্ দিকে?

উ: পূর্বদিকে অর্থাৎ বাংলাদেশের দিকে।

প্র: পশ্চিমবঙ্গের দক্ষিণে কোন্ নাগর আছে?

উ: বন্দোপনাগর।

প্র: মান্না-ভাগ্নে পাহাড় কোথায় অবস্থিত?

উঃ বীরভূমে।

প্র: পুরুলিয়ার জেলার কোন্ পাহাড় অবস্থিত?

উ: অবোধ্যা পাহাড়।

প্র: শুশুনিয়া ও বিহারীনাথ পাহাড় পশ্চিমবঙ্গের কোথায় অবস্থিত?

উ: বাঁকুড়া জেলায়।

Result of Quiz Competition

Name of the round	Team 1	Team 2
1	4	6

2	14	10
Grand Total	18	16
	WINNER	

Each question carries 4 marks

Bonus question carries 2 marks

Rabind Alam 5/9/20

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Quiz Master

Sucheta Joy 05/09/2020

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HOD