

**GOVT. HOLKAR (MODEL AUTONOMOUS)
SCIENCE COLLEGE, INDORE**



(An ISO 9001:2015 & ISO 14001:2015 Certified Institution)



SSR DOCUMENT

2017-18 to 2021-22

CRITERION -7

Institutional Values and Best Practices

Institutional Distinctiveness

Metric No. : 7.3.1

Document Title:

**III. Celebrations of national and international
Scientific events for promotion of scientific attitude**

तमसो मा ज्योतिर्गमय



Govt. Holkar (Model, Autonomous) Science College, Indore

One Day Webinar on

“Green Chemistry: A Pathway to Sustainability”

Organized by

Department of Chemistry

under the aegis of

“International Year of Basic Sciences for Sustainable Development”



Patron

Dr. Suresh T. Silawat

Additional Director, Higher Education
Indore division & Principal Govt.
Holkar Science College, Indore



Expert

Dr. Bindia Sharma

Assistant Professor
Prestige Institute of Engineering
Management & Research, Indore



Convener

Dr. Pramod Kumar Jain
Professor, Chemistry



HOD

Dr. Anamika Jain

Department of Chemistry
Govt. Holkar Science College,
Indore

About International Year of Basic Sciences for Development, 2022

Basic sciences have an important role to meet crucial challenges such as universal access to food, energy, health coverage and communication technologies. They enable us to understand the impact of the currently nearly and billion people on the planet to act to limit and sometimes even to reduce the depletion of ozone layer, climate change, depletion of natural resources and extinction living species.

Green chemistry is the need of the present time as the planet is suffering from pollution of soil, air and water.

In association with our MOU partners

- Elite Analytics, Indore
- Mata Jijabai Govt. Girls P.G. College, Indore
- MACLEC Technical Project Laboratory Pvt. Ltd., New Delhi

Outcomes

- Prevent Human health.
- Protect our Environment.
- Effect on Economy and Business.

Advisory Committee

Dr. Swagata Gupta

OSD, Office of Additional Director,
Indore Division

Online : Google Meet

Date : August 30th, 2022

Time : 12:00 to 01:00 pm

Organizing Committee

Dr. P.K. Jain - Convener
Prof. Amrish Gupta - Member
Prof. Nitin Patel - Member
Dr. Tripti Kamalpuria - Member
Prof. Aarti Dayma - Member
Dr. Megha Chourey - Member
Dr. Navita Khosla - Member
Prof. Preeti Burvey - Member
Mr. Manish Pawar - Technical Assistant
Mr. Dilip Dwivedi - Student
Ms. Monika Katariya - Student
Mr. Himanshu Joshi - Student

Link for registration: <https://forms.gle/EnRtVvfrSV4oqqA2A>

13 CLIMATE ACTION



4 QUALITY EDUCATION



75
आज़ादी का
अमृत महोत्सव

GOVERNMENT HOLKAR (MODEL, AUTONOMOUS) SCIENCE COLLEGE, INDORE (M.P.)

Grade "A" Accredited by NAAC

Department of Chemistry is Organizing a National

**E-Short Term Course
on**

"Principles of Green Chemistry"
(under the umbrella of IQAC)

Date: 20th September to 29th September 2022

Government Holkar (Model, Autonomous) Science College, Indore (M.P.)

Patron & Principal

Prof. (Dr.) Suresh T. Silawat

*Additional Director Higher Education
Indore Division &
Principal
Govt. Holkar Science College, Indore
(M.P.)*



Convener

Prof. (Dr.) Pramila Kori

*Assistant Professor of Chemistry
Govt. Holkar Science College, Indore
(M.P.)*



Co-convener

Prof. (Dr.) Ashok Barua

*Assistant Professor of Chemistry
Govt. Holkar Science College, Indore
(M.P.)*

Advisory Committee

Prof. (Dr.) Nagesh Dagaonkar

Professor of Physics

Prof. (Dr.) Swagata Gupta

Professor of Chemistry

Prof. (Dr.) Aparna Gandhe

Professor of Chemistry

Course Outcomes

- (1) Understanding the principle of Green Chemistry, Benefit and Obstacle of Green Chemistry.
- (2) Evaluate the promise of alternative chemicals technology.
- (3) Explain the way of multifunctional material.

In association with our M.O.U. partners

Elite Analytical Indore
Mata Jijabai Govt. Girls P.G. College, Indore
MACLEC technical Project Lab. Pvt. Lmt., Delhi

Organizing Committee

Prof. Nitin Patel - Faculty

Dr. Sheenu Bhadauria - Faculty

Prof. Rakhi Mandloi - Faculty

Mr. Manish Pawar - Technical Assistant

Mr. Dilip Dwivedi.- Lab Technician

Stephi Martin – Student

Anshika Awasthi- Student

Link for Registration : <https://forms.gle/C1Xw9kbn1ATFesZF6>



GOVERNMENT HOLKAR (MODEL, AUTONOMOUS) SCIENCE COLLEGE, INDORE (M.P.)

Grade "A" Accredited by NAAC

Department of Chemistry

is organizing

Inauguration of "Chemistry Club", "Parent- Teacher Meet" & Releasing of "Chemistry Chronical"



Prof. (Dr.) Suresh T. Silawat

*Additional Director Higher Education Indore Division &
Principal*

Govt. Holkar Science College, Indore (M.P.)

Date
24th September 2022

Time: 12:00 noon



Prof. (Dr.) Anamika Jain

*Professor & Head of the Department
Department of Chemistry*

Govt. Holkar Science College, Indore (M.P.)

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**Yashwant Hall, Govt. Holkar (Model, Autonomous) Science College,
Indore (M.P.)**

GOVERNMENT HOLKAR (MODEL, AUTONOMOUS) SCIENCE COLLEGE, INDORE (M.P.)

Grade "A" Accredited by NAAC

Guest Speaker

Dr. Swagata Gupta

OSD, Office of Additional Director, Indore Division, Indore (M.P.)

Inauguration of Chemistry Club, 2022

Prof. (Dr.) Namrata Pathak
In-charge Professor

Prof. (Dr.) Nameeta Bende
Member

Ku. Kumuduni Nagpure
President (M.Sc. Final)

Ku. Bhagyashree Billore
Vice-President (M.Sc. Previous)

Ku. Jahana Thobait
Secretary (M.Sc. Final)

Ku. Mitali Hupele
Co-Secretary (M.Sc. Previous)

Parent- Teacher Meet, 2022

Prof. (Dr.) Anupam Saxena
Convener

Prof. (Dr.) Pushpa Makwane
Co-convener

Prof. Preeti Burvey
Member

Prof. Reema Tanwar
Member

Mr. Manish Pawar
Technical Assistant

Mr. Dilip Dwivedi
Lab. Technician

Releasing of Chemistry Chronical, 2022

Prof. (Dr.) Anamika Jain
Convener

Prof. (Dr.) Pramod Kumar Jain
Co-convener

Prof. Nitin Patel - *Member*
Prof. Rakhi Mandloi - *Member*
Mr. Sheenu Bhadauria - *Member*
Mr. Dilip Dwivedi - *Lab. Technician*
Mr. Ajay Nargave - *Student*
Ms. Stephi Martiin - *Student*
Mr. Shyam Dawan - *Student*
Ms. Anshika Awasthi - *Student*
Mr. Akansh Dubey - *Student*
Ms. Kumudini Nagpure - *Student*
Ms. Bhagyashree Billore - *Student*
Ms. Prashansa Shrivastava - *Student*
Ms. Muskan Khan - *Student*



Govt. Holkar Science College, Indore

One Day Exhibition on
“The Glassy Affair”

Organized by

Department of Chemistry

under the aegis of International Year of Glass, 2022



Patron
Dr. Suresh T. Silawat
Additional Director, Higher Education
Indore division & Principal Govt. Holkar
Science College, Indore



Convener
Dr. Pramod Kumar Jain
Professor, Chemistry



HOD
Dr. Anamika Jain
Department of Chemistry
Govt. Holkar Science College, Indore

About International Year of Glass, 2022

Glass wares have been used in micro and macro analysis since old times. The cost of chemicals and glass wares has increased tremendously and keeping in view the micro glassware and micro analysis has become the necessity of the present time.

We are Celebrating International Year of Glass, 2022 regarding information about glass wares and instruments. In the exhibition we will be demonstrative various types of glass wares & instruments and explaining their journey from past to present.

In association with our MOU partners

- Elite Analytics, Indore
- Mata Jijabai Govt. Girls P.G. College, Indore
- MACLEC Technical Project Laboratory Pvt. Ltd., New Delhi

Date:
25 August 2022

Venue:
Bhagwat Lab, Department of Chemistry
Govt. Holkar Science College, Indore (M.P.)

Time :
11:00 am to 04:00 pm

Outcomes

- To demonstrate the role of glass in civilization.
- Application of glass in education, industry, research and public domain.
- To promote uses of glass because of its having recycling properties.

Advisory Committee

Dr. Swagata Gupta
OSD, Office of Additional Director, Indore
Division

Organizing Committee

Dr. P.K. Jain - Convener
Prof. Amrish Gupta - Member
Prof. Nitin Patel - Member
Dr. Tripti Kamalpuria - Member
Prof. Aarti Dayma - Member
Dr. Megha Choure - Member
Prof. Preeti Burvey - Member
Mr. Manish Pawar - Technical Assistant
Ms. Antim bala Senani - Lab. Technician
Mr. Anand Pathak - helper
Mr. Monika Katariya - Student
Ms. Himashu Joshi - Student



Food and Agriculture
Organization of the
United Nations



INTERNATIONAL YEAR OF
ARTISANAL FISHERIES
AND AQUACULTURE
2022



Government Holkar (Model Autonomous) Science College, Indore (M.P.)

Department of Fisheries

under the umbrella of IQAC and WB-MPHEQIP

is Organizing

One Day Seminar on

“मत्स्यिकी में रोजगार की संभावना ”

“ Possibilities of Employment in Fisheries”

Date :- 27 August 2022

Time :- 12 PM



Patron

Dr. Suresh T. Silawat

Additional Director, Higher education
Indore division & Principal Govt. Holkar
Science College, Indore



Subject Expert

Dr. MMP Shrivastava

Dr. B. R. Ambedkar University of Social Sciences
, Mhow (Indore)



Subject Expert

Dr. Sushant Punekar

Deputy Controller, MPPSC, Indore



HOD

Dr. C.S. Shrivastava

Department of Fisheries
Govt. Holkar Science College, Indore



GOVT. HOLKAR [MODEL, AUTONOMOUS] SCIENCE COLLEGE, INDORE, (M. P.)

(‘NAAC’ Accredited ‘A’ Grade College)

Department of Forensic Science

is Organizing One Day National Webinar

under the umbrella of IQAC and WB-MPHEQIP

SDG (Responsible Consumption and Production) on

“Challenging Aspects of Environmental Forensics”

(Session: 2021-22)

Date : 29/08/2022

Time : 01:00PM Onwards

Platform : Google Meet Application



Patron

Dr. Suresh T. Silawat
Principal, Govt. Holkar Science
College & Additional Director,
Higher Education, Indore
Division



Resource Person

Dr. Devasish Bose
Professor & Head
Department of Criminology & Forensic
Science
Dr. Hari Singh Gour Central University,
Sagar (M. P.)



Resource Person

Dr. Rajesh Singh Yadav
Associate Professor
National Forensic Science
University, Bhopal (M. P.)



Head

Dr. Geetha Sarasan
Department of Forensic
Science, Govt. Holkar Science
College, Indore, (M. P.)



Co - Head

Dr. Pramila Kori
Department of Forensic
Science, Govt. Holkar Science
College, Indore, (M. P.)



Advisor

Dr. Vijay R. Chourey
Department of Chemistry,
Govt. Holkar Science
College, Indore, (M. P.)

Members of Organizing Committee

Prof. Harshita Sonkar
Prof. Shivani Solanki
Prof. Isha Sahu
Prof. Priyanka Jamre

Covenor

Prof. Ritu Bharti Prasad

Co-Convenor

Prof. Siddhi Geete Sohani

Organizing Secretary
Prof. Satish Rai

Members of Technical Committee

Ms. Geeta Nagarya
Ms. Nisha Mandle
Ms. Gayatri P. Anand
Mr. Deepak Rathore

Link For Registration: <https://forms.gle/zraK1owdcccFk1Vsa9>



GOVT. HOLKAR [MODEL, AUTONOMOUS] SCIENCE COLLEGE, INDORE (M.P.)
(‘NAAC’ Accredited ‘A’ Grade College)

Department of Forensic Science

is organizing

A National Virtual Workshop on “Instrumental Techniques: A Reflection of the Multi-disciplinary Nature of Forensics”

From 03/10/2022 to 10/10/2022

(Session 2022-23)

“Offline Demonstration” on 10th October 2022 at UGC-DAE Consortium for Scientific Research, Indore (M.P.)

Platform- Google Meet Application



Patron

Dr. Suresh T. Silawat

Principal, Govt. Holkar Science College, Indore (M. P.) & Additional Director, Department of Higher Education, Indore Division



Head

Dr. Geetha Sarasan

Department of Forensic Science, Govt. Holkar Science College, Indore (M. P.)



Co-Head

Dr. Pramila Kori

Department of Forensic Science, Govt. Holkar Science College, Indore (M. P.)



Inaugural Speaker

Dr. Vasant Sathe

Central Director, UGC-DAE Consortium for Scientific Research, Indore (M.P.)

Programme Outcome-

This program will enhance the theoretical as well as the practical knowledge of participants on various Instrumental Techniques such as ESDA, VSC, Raman Spectrophotometer, UV-Visible Spectrophotometer, FTIR, Polygraph, GC, HPLC, XRD etc. which will aid to the skill development of the participants.

Resource Persons



Dr. Uday Deshpande
Senior Scientific Officer
UGC-DAE Consortium for
Scientific Research, Indore



Dr. Niranjan Prasad Lalla
Senior Scientific Officer
UGC-DAE Consortium for Scientific
Research, Indore



Dr. Netram Kaurav
Head, Department of Electronics
Govt. Holkar Science College, Indore
(M.P.)



Mr. Anurag Sahu
Assistant Professor
Govt. Institute of Forensic Science,
Aurangabad, Maharashtra



Dr. Deepti Puranik
Assistant Professor
Narsee Monjee Institute of
Management, Navi Mumbai (MH)



Mr. Ravindra Singh Thakur
Senior Research Fellow
CSIR-Indian Institute of
Toxicology Research, Lucknow



Ms. Disha Hirankhere
Research Scholar
Govt. Holkar Science College,
Indore (M.P.)

Convenor and Co-convenors



Convenor
Prof. Harshita Sonkar
Department of Forensic Science
Govt. Holkar Science College,
Indore (M.P.)



Co-convenor
Prof. Shivani Solanki
Department of Forensic Science,
Govt. Holkar Science College,
Indore (M.P.)



Co-convenor
Prof. Isha Sahu
Department of Forensic Science,
Govt. Holkar Science College,
Indore (M.P.)

Advisory Committee members

- ❖ Dr. G. D. Gupta (Vice Principal)
- ❖ Dr. R. C. Dixit (Administrative Officer)
- ❖ Dr. N. Dagaonkar (Co-Ordinator of IQAC)
- ❖ Dr. B. Rai (NAAC In charge)
- ❖ Dr. Vijay R. Chourey (Professor, Department of Chemistry)
- ❖ Dr. Swagata Gupta (OSD, Office of Additional Director, Indore Division)
- ❖ Dr. Netram Kaurav (Head of Electronics Department)

Organizing Committee Members

- ❖ Prof. Satish Rai
- ❖ Prof. Ritu Bharti Prasad
- ❖ Prof. Siddhi Geete Sohani
- ❖ Prof. Priyanka Jamre

Registration Link : <https://forms.gle/mL29KhbpzZdtyobx8>

GOVT. HOLKAR (MODEL, AUTONOMOUS) SCIENCE COLLEGE, INDORE (M.P.)

One Day Seminar On "Environment Conservation" On the occasion of M.P. Foundation Day

*We welcome our Chief Guest Shobha Tai Pathenkar and
Speakers Dr. Kiran Bisen, IFS, DFO, Ujjain and
Dr. Tushar Banerjee, Head of Dept. Lifesciences, DAVV, Indore*

Date: 04 November 2022 ♦ Venue: Yashwant Hall ♦ Time: 12:00 pm

Organized By : **Department of Botany & Microbiology**, Govt. Holkar Science College, Indore, M.P.

Dr. Smita Dubey
Convenor

Dr. Sanjay Vyas
Coordinator and Head
Dept. of Botany and Microbiology

Dr. R.C. Dixit
Administrator Officer

Dr. G.D. Gupta
Vice Principal

Dr. Suresh T. Silawat
Principal
Govt. Holkar Science College, Indore





Government Holkar (Model Autonomous) Science College, Indore (M.P.)
(NAAC Accredited "A" Grade College)
Established : 1891



Dr. Suresh T. Silawat
Principal & Additional Director
Indore Division

International Geodiversity Week Celebration

Under the umbrella of
IQAC



6th october -

(1)11:30 am: Online talk on Geodiversity. Speaker Dr. Vinod Agrawal, Former Dean, faculty of Earth Sciences,MLS University,Udaipur.

2)12:30 pm onwards : Power point presentation on Geoheritage sites of India by P.G. students. Venue Geology Department.

7th October-

Venue - N6,Siddhivinayak Building

Time - 12 :00 noon

Special Guest lecture on Geoheritage and fossil conservation by Shri Vishal Verma.

SUSTAINABLE DEVELOPMENT GOALS



8th October -

GEOHERITAGE WALK- ·Geoheritage walk for conservation and promotion of Kawadia Hill(Columnar trap dyke world class geoheritage site), Potla, Bagli, Dewas district

10th October -

Power Point Presentation on Geoheritage Sites of India by P.G. Students.

Venue - Geology Department

Time :- 12:30 PM onwards

11th October-

Cultural events on Geodiversity - Skits, Speech,Dance,songs, and so on.....

Poster/Drawing /Painting ,Georangoli competition and exhibition.

Venue - Yashwant Hall

Time - 11:30 am onwards

12th October-

·Charts/Posters/Drawing paintings Exhibition and act play by students on theme of Geodiversity.

Venue - Yashwant Hall

Time - 11:30 am onwards

Co- ordinators

Dr. Vishnu Gadgil,
HOD,Geology and Geography Department

Dr. Shailesh Chaure

Dr. Parul Pandey

Prof Kamta Prasad

Dr. Poonam Bhatnagar

Dr. Roohi Ansari

Prof Himanshu Sharma

EXTENSION AND OUTREACH PROGRAM

S. No	Component/Activities	Details of event
1	Name of the Department / Unit / Agency:	MATHEMATICS
2	Name of the Activity:	NATIONAL MATHEMATICS DAY 2019 (RAMANUJAN DAY)
3	Name of the Scheme:	MPCST
4	Date and Year of the Activity:	23.12.2019
5	Number of Students Participated in the activity:	94
6	Report of the Activity (in 100 words):	✓
7	Photo of Activity:	✓
8	Media Report of Activity:	NIL
9.	Poster of Activity	NIL
10	List of Participants	

Signature of Activity In charge

Note; 1). Please use Time New Roman font with 12 font sizes.

2). Delete extra rows if data is not available.

3). Preserve the word file in your computer.

3-3-2

Accounts details of Institute :

1. Account holder name : Janabhaiji dani Samiti
2. Account Type and Number : Saving 53015567899
3. Bank Name : State Bank of India, Harkar Science college, Indore
4. Branch Address : Bhawankuwa Indore
5. IFS Code : SBIN0030467
6. PAN Number :
7. Cancelled Cheque enclosed (having details of institutional Account Number & IFS Code etc.) :

Document required after organizing the Programme

1. Technical Report of Programme
2. Indicate in 200 words how the Programme has helped and beneficial for development of M.P. state
3. Audited Utilization Certificate as per proforma.
4. Statement of Expenditure (Head wise) as per proforma
5. Photographs (Hard and soft copy)
6. Newspaper Clipping NOT available but send
7. One set of complete registration kit
8. List of Participants with signatures and contact details (Mentioning number of General/Women/SC&ST)
9. Feedback form duly filled by participants (if any).
10. Any other information related to region.

Format for Audited Statement of Expenditure

1. Sanction letter No. 2457/CST/STP/2019
2. Date of sanction 23.12.2019
3. Title of the Programme National Mathematics Day-2019
4. Name and Address of Organizers Dr. Ravindra Garg, Head department of Mathematics
5. Name of the Organizing Institute Gert (Autonomous Model) Holkar Science College, Indore (M.P.)
6. Amount sanctioned by MPCST 30,000/- Thirty thousand
7. Amount released by MPCST 24,000/- Twenty four thousand
8. Details of expenditure :

S.No.	Item/Head	Amount Sanctioned	Amount Utilized	Balance
1	T.A/DA subject exp	4000	4000	NIL
2	Hon to sub exp	4000	4000	NIL
3	Print Post & Trav	6000	6000	00
4	Tea Ref Lunch	5000	5080	-80
5	Misc Expenses	6000	5997	T03
	Postgraduate Assng	5000	5000	000
Total		30000	30077	-77

Balance Amount Paid by college J.B.S.

Organizer/Coordinator
(Signature & Seal)

Finance Officer
(Signature & Seal)

Head of Institution
(Signature & Seal)

Date:

Chartered Accountant
(Signature & Seal)

૧. / પ્રતિયોગિતા

પ્રથમ - " શ્રીનિવાસ રામાનુજન ડ્રા બિવન પરિચય ઈવ શોગદાન

પ્રથમ - પ્રતિષ્ઠા રાય (N. 8c. I & em mathematics)

દ્વિતીય - રક્ષા ચાદવ (B. 8c. IIIth M₁₀)

ત્રીય - સોજલ રાય (Ist y - M₁)



પોસ્ટર પ્રેઝેટેશન પ્રતિયોગિતા

પ્રથમ - વિમિન સનોડિયા II M₁₁

દ્વિતીય - ખાન્હવી શિવહેરે I M₁

• ત્રીતીય - કુલ્લુકુમાર ચાદવ - B. 8c. II M₆

Pallavi Agrawal - B.Sc-I-M_{II}

② Abhishek Pachshikhiya

③ Aisha Rajput - B.Sc-I-M_{II}

* ④ JAHNAVI SAIVHARE - B.Sc-I-M_I → (II)

⑤ VIKIN SAHODIYA - B.Sc-II-M_{II} → (I)

⑥ SASEJAL RAY - B.Sc-I-M_{II}

⑦ H - - -

⑧ MAHIMA SHUKLA - B.Sc-I-M_I

⑨ - - - - -

⑩ SACHIN NEEM - B.Sc-II-M_{II}

* ⑪ MUSKAN MANCHANDANI - B.Sc-I-M_{II}

* ⑫ KRISHNA KUMAR YADAV - B.Sc-II-M_{II} → (III)

⑬ ANJULI SINGH - ~~B.Sc-I-M_I~~ M.Sc-I-Sem

⑭ ISHA PAHADIYA - M.Sc-I-Sem

⑮ KULDEEP NAMDEO - M.Sc-II-Sem

QUIZ - COMPETITION ON

NATIONAL MATHEMATICS DAY

23rd Dec
2019

POSITION	NAME	CLASS	MARKS OFS
1.	AMAN RAJPOOT 8349740551	B.Sc. III -M ₁	31
2.	VIPIN SANODIYA 9340420285	B.Sc. III M-11	28
3.	MOKSHDA DAVE 7466444088	B.Sc. II M ₁	25


23.12.2019
RAJNISH JAIN

राजनी की प्रतिवेद राष्ट्रीय गणित दिवस

शासकीय मध्यालय (आदर्श) विमान. महाविद्यालय इंदौर (अ.प्र.) के गणित विभाग द्वारा दिनांक 24/12/2019 को अ.प्र. विमान एवं प्रौद्योगिकी परिषद द्वारा प्रदत्त अनुदान के तहत "राष्ट्रीय गणित दिवस - 2019" का आयोजन किया गया। राष्ट्रीय गणित दिवस का उद्घाटन समारोह डेकी अहिल्या विश्वविद्यालय की कुलपति प्रोफेसर रेणु जैन के मुख्य आतिथ्य, कुल सचिव डॉ. अनिल शर्मा के विशेष आतिथ्य एवं महाविद्यालय के प्राचार्य डॉ. सुरेश-बी. सिलावत की अध्यक्षता में सम्पन्न हुआ। इस अवसर पर डॉ. रेणु जैन ने महान गणितज्ञ राजानुजन के गणित में उनके योगदान से अवगत कराया।

मुख्य वक्ता के रूप में विषय विशेषज्ञ डॉ. पूर्णिमा जैन प्राध्यापक रानी दुर्गावती विश्वविद्यालय जबलपुर द्वारा गणित विषय का दैनिक जीवन में उपयोग एवं सरलतम तरीकों द्वारा गणित का समझने पर विशेष जोर दिया। इसके पश्चात् डॉ. अनुपम जैन प्राध्यापक एवं विभागाध्यक्ष, शासकीय महाविद्यालय साकेर द्वारा भारत के प्राचीन गणितज्ञों द्वारा उनके योगदान पर जोर देकर उनके संदर्भ ग्रन्थों की विस्तृत रूपरेखा के माध्यम से अपने व्याख्यान में प्रस्तुत किया। इस अवसर पर डॉ. राजाजी सहित समस्त महाविद्यालयीन परिवार ने कार्यक्रम में सहभागिता की।

गणित विभाग द्वारा उक्त दिवस पर राजानुजन के जीवन परिचय और उनके गणित में अभूतपूर्व योगदान से संबंधित विभिन्न प्रतियोगिताओं तथा प्रश्नमंच, निबंध एवं पोस्टर प्रेजेंटेशन का आयोजन किया गया।

प्रश्नमंच प्रतियोगिता में कुल 64 प्रतिभागी सम्मिलित थे। विजेता श्री अमन राजपूत की इस जीत को देखते हुए प्रथम

द्वितीय स्थान प्राप्त किया।

2. पोस्टर प्रतियोगिता में कुल 15 प्रतिभागी सम्मिलित
जिसमें श्री विपिन समोझिया बी.एस.सी. तृतीय वर्ष
स्थान, कुं जाह्नवी शिवहरे बी.एस.सी. प्रथम वर्ष ने
स्थान एवं श्रीकृष्ण कुमार यादव बी.एस.सी. द्वितीय
ने द्वितीय स्थान प्राप्त किया।

3. विश्व महान गणितज्ञ ^{श्रीनिवास} श्री रामानुजन का जीवन परिचय
योगदान" विषय पर आयोजित निबन्ध प्रतियोगिता
कुल 15 प्रतिभागी सम्मिलित हुये जिसमें कुं प्र
शय एम.एस.सी. प्रथम सेमेस्टर गणित ने प्रथम स्थान
कुं रक्षा यादव बी.एस.सी. तृतीय वर्ष ने द्वितीय स्थान
एवं कुमायी सैजल राव बी.एस.सी. प्रथम वर्ष ने तृतीय
स्थान प्राप्त किया।

प्रतियोगिताओं के अन्त में प्रतिभागियों द्वारा
उक्त प्रतियोगिताओं के सम्बन्ध में अपने विचार प्रकट
किये एवं आगामी समय में भी इस तरह के आयोजनों
का सतत रूप से किये जाने हेतु प्रस्ताव रखा। संस्था
अक्सर पर उक्त प्रतियोगिताओं के सफल विजेताओं
को प्रमाण पत्र एवं विशेष पुरस्कारों द्वारा सम्मानित
किया गया।

राजनी की प्रतिवेद राष्ट्रीय गणित दिवस

शासकीय महाविद्यालय (आदर्श) विमान, महाविद्यालय इंदौर (अणु) के गणित विभाग द्वारा दिनांक 24/12/2019 को अणु विज्ञान एवं प्रौद्योगिकी परिषद द्वारा प्रदत्त अनुदान के तहत "राष्ट्रीय गणित दिवस - 2019" का आयोजन किया गया। राष्ट्रीय गणित दिवस का उद्घाटन समारोह डेकी अहिल्या विश्वविद्यालय की कुलपति प्रोफेसर रेणु जैन के मुख्य आतिथ्य, कुल सचिव डॉ. अनिल शर्मा के विशेष आतिथ्य एवं महाविद्यालय के प्राचार्य डॉ. सुरेश-बी. सिलावत की अध्यक्षता में सम्पन्न हुआ। इस अवसर पर डॉ. रेणु जैन ने महान गणितज्ञ राजानुजन के गणित में उनके योगदान से अवगत कराया।

मुख्य वक्ता के रूप में विषय विशेषज्ञ डॉ. पूर्णिमा जैन प्राध्यापक रानी दुर्गावती विश्वविद्यालय जबलपुर द्वारा गणित विषय का दैनिक जीवन में उपयोग एवं सरलतम तरीकों द्वारा गणित का समझने पर विशेष जोर दिया। इसके पश्चात डॉ. अनुपम जैन प्राध्यापक एवं विभागाध्यक्ष, शासकीय महाविद्यालय सांनेर द्वारा भारत के प्राचीन गणितज्ञों द्वारा उनके योगदान पर जोर देकर उनके संदर्भ ग्रन्थों की विस्तृत रूपरेखा के माध्यम से अपने व्याख्यान में प्रस्तुत किया। इस अवसर पर डॉ. राजाजी सहित समस्त महाविद्यालयीन परिवार ने कार्यक्रम में सहभागिता की।

गणित विभाग द्वारा उक्त दिवस पर राजानुजन के जीवन परिचय और उनके गणित में अभूतपूर्व योगदान से संबंधित विभिन्न प्रतियोगिताओं तथा प्रश्नमंच, निबंध एवं पोस्टर प्रेजेंटेशन का आयोजन किया गया।

प्रश्नमंच प्रतियोगिता में कुल 64 प्रतिभागी सम्मिलित थे। विजेता श्री अमन राजपूत की इस जीत को देखकर सभी ने प्रथम

द्वितीय स्थान प्राप्त किया।

2. पोस्टर प्रतियोगिता में कुल 15 प्रतिभागी सम्मिलित
जिसमें श्री विपिन समोझिया बी.एस.सी. तृतीय वर्ष
स्थान, कुं जाह्नवी शिवहरे बी.एस.सी. प्रथम वर्ष ने
स्थान एवं श्रीकृष्ण कुमार यादव बी.एस.सी. द्वितीय
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3. विश्व महान गणितज्ञ ^{श्रीनिवास} श्री रामानुजन का जीवन परिचय
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एवं कुमायी सैजल राव बी.एस.सी. प्रथम वर्ष ने तृतीय
स्थान प्राप्त किया।

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किये एवं आगामी समय में भी इस तरह के आयोजनों
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अक्सर पर उक्त प्रतियोगिताओं के सफल विजेताओं
को प्रमाण पत्र एवं विशेष पुरस्कारों द्वारा सम्मानित
किया गया।



24.12.2019

Gopal Holkar (Model, Autonomous) Science
Mathematics
Mathematics
Mathematics



National Seminar on
"Recent Trends in Basic Sciences, RTBS-2018"

03rd & 04th October 2018

Organized By: Govt. Holkar (Autonomous, Model) Science College, Indore
[M.P.]

Sponsored by: MPCOST, Bhopal [M.P.]

INTRODUCTION:

Govt. Holkar Science College, Indore organized two days National Seminar on "Recent Trends in Basic Sciences-RTBS, 2018" on 03rd & 04th October 2018 (Dedicated to Honorable Late Dr. S.S. Deshpande) along with celebration of 100th Year of Department of Chemistry.

Government Holkar Science College is an esteemed institution of Madhya Pradesh. Its foundation was laid in 1891 during the regime of Holkars. Since, 127 years college is a leading educational platform and is proudly functioning as a source to many scholars, who are now earning name and fame at various national and international levels.

Dr. S.S. Deshpande birth year is same as the year in which Holkar Science College came into existence i.e., 1891. Dr. S.S. Deshpande was a meritorious student all through his career. He was not only a brilliant student but a devoted professor and a keen researcher. He persuaded his Ph.D. from England under guidance of Noble laureate Dr. J. F. Thrope in 1922. He dedicated himself to make the college a prominent center of teaching and research. He became principal of Holkar College later in 1944.

Due to his sincere hard work and his contribution and devotion in the field of chemistry and Science, we dedicate the national award in his memory every year i.e. the prestigious Dr. S.S. Deshpande Award.

The present year 2018 carries a special significance as it marks the 100th year of establishment of department of Chemistry. It is the biggest and oldest department of the college. The post-graduation in Chemistry was started in 1931 as a result of great efforts by Dr. P. Basu, who was the then principal of

the college. It was probably the first college in M.P. where M.Sc. Chemistry was initiated. B.Sc. Chemistry was started in the year 1891.

Chemistry Department has witnessed a lot of achievements. Students & scholars of our department are serving as heads, professors and principals in different institutions and colleges. More than 140 scholars have been awarded doctorate degree till now. Over the years about 600 research papers have been published in the national and international journals of repute.



MAIN OBJECTIVES:

The main objective of the seminar was to focus on education, research and development and the practical application of applied sciences in Chemistry, Physics, Statistics, Mathematics, Management, Geology and Life Sciences, Social Sciences, Economics, Commerce, Computer Science, Engineering and Technology. The seminar gave a big platform to participants where they have exchanged and shared their experiences with scientists, engineers, research scholars, students and academicians. This helped to generate innovative ideas about the advancement in applied sciences, social sciences, engineering and technology; which in turn would enable them to encounter critical changes in a better way and equip them with adequate knowledge.

With this objective the department organized two days national seminar. Though the department has hosted number of a quality improvement programmes for scholars, students and faculties in the past. This seminar is especially dedicated to Eminent Professor Late Shri (Dr.) S.S. Deshpande, former Head, Department of Chemistry of this prestigious college.

In the seminar invited lectures and deliberations were held to increase awareness of chemical science. The theme "Recent Trends in Basic Sciences" was helpful in the direction of socio-economic contribution of chemical sciences.

During this national seminar poster presentation was organized on 04th Oct. 2018 in which 72 posters were displayed, indicative of success of poster presentation covering varied science streams.

We would like to emphasize the names that have been the pride of our department:

Dr. W.V. Bhagwat- D.Sc. (1936)

Dr R.P. Kaushal - D.Sc. (1941)

Dr S.S. Deshpande - D.Sc. (1972)

Dr. K.K. Chaturvedi - Retired Principal- D.Sc. (1996)

Dr. P. S. Kalsi - Retired Professor - Chandigarh - life time achievement award.

Dr. N.S. Poonia - Retired Professor DAVV - Life time achievement award and Katju award.

Dr. S.L. Garg- Retired Principal GACC, Indore. Editor of national and international journals.

Dr. S.M. Tambe - Retired Professor - two times national award winner in music.

Dr. P.V. Khadikar - Full bright award.

Dr. A.G. Fadnis - Common wealth academic staff.

Dr Vijayendra R. Shastry - Kamta Prasad guru awarded on his book as best publication. He also proposed "law of impossibility to know the absolute reality and origin of universe" submitted to Nobel Prize committee Sweden in 1982.

Recipients of Dr. S.S. Deshpande Award:

The first award was conferred to Dr. T. Pradeep, IIT Chennai in the national seminar organized by department marking the "International Year of Chemistry, 2011". The award for 2012 was given to Dr. C. S. Gopinath, NCL Pune. In 2013, it was given to Dr. K. K. Pant, IIT Delhi and 2014 award went to Dr. Niranjana Karak, Tejpur University, Assam.

Glimpses of award for the year 2015 & 2016:

The present seminar was organized to commemorate, Dr. S.S. Deshpande award for the year 2015 & 2016. The recipients were Dr. Vinod Kumar Tiwari, BHU, Varanasi and Dr. Partha Sarathi Mukherjee, IISc, Bangalore respectively.

Dr. V.K. Tiwari Awardee, explained how carbohydrates play vital role in various pathologically and physiologically important biological processes. He also discussed about the design and development of diverse class of glycoconjugates comprising with other skeleton.

In the second session, Dr. Partha Sarathi Mukherjee, explained various chemical and physical properties of chemical entities, in confined nanospace and the use of confined. Space of discrete organic cages for nucleation of tiny palladium nano particles and their successful use in facile transformation of aryl halides to corresponding cyanides.

Dr. K.K. Verma, retired professor Rani Durgawati University Jabalpur discussed about FTIR spectroscopy, its advantages. FTIR has emerged recently

as a promising method as it is simple, non destructive low cost technique and it delivers real time data analysis.

On second day, in the first session Dr. M.K. Tiwari, RRCAT Indore explained about X-ray fluorescence of Inus-2-facility (XRF) and its applications in basic and applied sciences. Apart from field of pure science like physics and chemistry the beam line provides an alternative platform to exercise material science applications. He discussed various salient features of the BL-16 beam line facility.

In the same session, Dr. S. K. Bhatnagar, Director, Biomedical Research Centre, Gwalior delivered a life opening and important lecture on manmade carcinogenic chemistry of Aerosole. He also explained on the basis of WHO 2015 data that about 7 million people died due to air pollution diseases in the same year as per information at present 1 out of 50 families are affected from cancer, in coming 20 years, 10 out of 50 families are going to be affected by cancer due to polluted environment.



Keynote Lecture by Dr. V.K. Tiwari

(Topic: Facile Synthesis of Diverse Glycoconjugates of Great Chemotherapeutic Values)



Keynote Lecture by Dr. Partha Sarathi Mukherjee, IISc, Bangalore

(Topic: Chemistry in Molecular Flasks)



Expert Lecture by Dr. K.K. Verma, RDU, Jabalpur

(Topic: Applications of FTIR)

Expert Lecture by Dr. S.K. Bhatnagar, Director, Bio-Medical Research Centre, Gwalior M.P.

(Topic: Carcinogenic chemistry of aerosol by natural and synthetic chemistry to sustain our coming generation)

Expert Lecture by Dr. Ashok Sharma, HOD & Dean, School of Chemical Sciences, DAVV, Indore

(Topic: A Deep Insight into the Synthesis and Theoretical Aspects of Azoles: A Fascinating class of Heterocycles)

Expert Lecture by Dr. M.K. Tiwari

(Topic: X-ray fluorescence of bulk and thin nanostructured materials using Indus-2 facility)





Judges of Poster Presentation:

- Dr. Arun Singh from Bhopal
- Dr. R.S. Maheshwari, Retired Professor of Govt. Holkar Science College, Indore
- Dr. K.K. Verma from Jabalpur
- Dr. V.K. Parashar from Bhopal





Valedictory Function:



Winners of Poster Presentation:

- Ku. Gagandeep Kaur Reen from School of Chemical Sciences, DAVV, Indore
- Mr. Arif Patel from Holkar Science College, Indore
- Mr. Juzer Ali Rangwala from Jabalpur



Consolation Prize:

- Ku. Mamta Hirwe, School of Biochemistry, DAVV, Indore
- Ku. Swati Prashar, School of Chemical Sciences, DAVV, Indore
- Ku. Ruchi Shrivastava, IPS Academy, Indore

Dr. Anamika Jain

Convener, RTBS-2018

Dr. Rooplekha Vyas

Principal







Government Holkar Science College organises programme



The chemistry department of Government Holkar Science College completes 100 years on Wednesday. On the occasion, they organised a two-day seminar under the guidance of DAVV vice chancellor Dr Narendra Dhakkad. Homage was also paid to renowned chemist and scientist, Lt SS Deshpande and distributed the national award registered in his name. Dr Parthasarathi Mukherjee who received this award addressed the students saying, "There is a shortage of High end researches in the educational institutions in India. We need to make sure to keep in par with the world in technological terms, and for that we need to work hard."



• पृष्ठ 12 • मूल्य 3.00 रु.

— महामारत

राष्ट्रीय विचारधारा का एकमात्र समर्थक पत्र

स्वदेश

(नगर प्रतिनिधि)

यह बात बुधवार को होल्कर विज्ञान महाविद्यालय में 100 वर्षों का उत्सव प्रारंभ करने के अवसर पर डॉ. पार्थ साखी मुखर्जी ने अपने उद्घोषण में की। शास्त्रीय होल्कर विज्ञान महाविद्यालय, इन्दौर के रसायनशास्त्र विभाग की स्थापना के गौरवशाली 100 वर्ष पूर्ण होने के अवसर पर आधारभूत विज्ञान में शोध करने नवीन अग्रिम विषय पर दो दिवसीय राष्ट्रीय

2 वैज्ञानिकों को किया सम्मानित

एस.एस. देशपाण्डे की स्मृति में स्थापित राष्ट्रीय पुस्तककार के तहत वर्ष 2015 का पुस्तककार बनारस हिन्दू विश्वविद्यालय के विज्ञान संस्थान बैंगलुरु के अध्यक्ष तथा शैली स्वयं भटनागर पुरस्कार प्राप्त डॉ. पाव साखुनी मुखर्जी को दिया गया। कार्यक्रम में डॉ. विनोद कुमार ठिकारी ने अपना समुच्च यक्ष्य सिंधिसेंस आफ जालपूर ग्लायकोलॉजिस्ट ऑफ प्रेट कोमोथेराम्यूटिक एन्ड्रियस पर देते हुए बताया कि इस दिशा में सर्वप्रथम विकास में कई शोध कार्य हो रहे हैं। आपने कहा कि, जीवों में सतत बना रहना ही

[illegible]

INDORE FRIDAY, 05/10/2016

कैमिल्ली में दिवस के लिए शांतिस्वरूप भटनागर सम्मान पा चुके पार्थ सारथी मुख्यमंत्री ने बताया कि अहिंसा में आन्दोलन होगा प्रमुख ऊर्जा स्रोत जो पानी से बनता जाएगा

कैमिल्ली में विस्मय के लिए शांतिस्वरूप अटनागर सम्मान पा चुके पार्थ सारथी मुख्यमंत्री के बताया अभिषेक में हाथ-पैर जुड़ेंगे प्रमुख ऊर्जा क्षेत्रों जो पानी से बनाया जाएगा

1992 *First-year* 1 *senior*

पॉलिमरों में ईस्टरों के लिए प्रयुक्त पॉलिमर
विशेषकर पेट्रोलियम सामानों का उपयोग
से लाया जा चुका है। मुख्य रूप से कार्बो
मैथेन में से होकर बनाई गई पॉलिमर में
मूल रूप से नैशनल रीसर्च में शामिल
एल. जे. गैरीस। बताया कि आने वाले
समय में जब विकसित पेट्रोल खनिज
सामानों का उपयोग किया जाएगा, तो
पॉलिमरों को होगा। आज वैज्ञानिकों के
सामान्य सम्बन्ध बढ़ी चुकी है। है कर्ना
का विकसित रसायन कक्षा। एनर्जी के
डेवलपमेंट को देखते हुए भी-पेट्रोल खनिज
का एक है। रसायन पेट्रोल के एक खनिज
विकसित है लेकिन इसकी प्रतीति
है। पेट्रोल के एक खनिज है। पेट्रोल
पॉलिमर है। पेट्रोल ही को विकसित है
निरासे रूप में बनाया प्र उपयोग
में कर्ना। उपलब्ध कर्ना। आज सम्बन्ध
है। पेट्रोल आज है। लेकिन कुछ
समय बाद यह खनिज खनिज है।
तब पानी (H₂O) से एम्बेडेड
किया गया कर्ना। खनिज है।
पेट्रोल के एक खनिज है। पेट्रोल
खनिज को बनाया जा रही है। पेट्रोल
से एम्बेडेड भी एम्बेडेड है। पानी है।



होगा भविष्य में ऊर्जा का स्रोत और दुनियाभर में वैज्ञानिक इस रिपोर्ट में लगे हुए हैं।

मुखर्जी ने उन फाल्गुनी पर भी बात की जो रिकवरी को प्रभावित करती हैं। उन्होंने कहा - हायर एजुकेशन पर हम अक्सर जोरिदी की एक पक्षिगत भी इन्वेस्ट नहीं कर रहे। जबकि कॉफीया, फूल, जामुन में ये आकर्षक पैमाने खोलें हैं। हमी तो फिचलें की सारी ये कदां कि वैज्ञानिक नोबल प्रदान जीत रहे हैं। ऐसा नहीं है कि भारत में स्वयं वैज्ञानिक नहीं। टेपेर, सी सी रमन शिखर कि क्रमशः पहले और दूसरे नोबल प्राइज विनर रहे हैं। लेकिन भारत में जो महत्व नहीं दिया जा रहा भारत में।

यूनिवर्सिटीज़ में भी टैलेंट हैं, उसे अवसर तो दीजिए

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इंदौर, गुरुवार, 04.10.2018

PATRIKA.COM/

होलकर कॉलेज के राष्ट्रीय सेमिनार में डॉ. मुखर्जी व डॉ. तिवारी का सम्मान विज्ञान और तकनीक में आगे रहने के बावजूद रिसर्च में पीछे है भारत

पत्रिका PLUS रिपोर्टर

इंदौर • हमारे देश में टेनैट की कमी नहीं है। दुनिया के सभी देश हमारी इस ताकत का खोला घावते हैं। विज्ञान और तकनीक के क्षेत्र में भारत ने बड़ी उपलब्धि हासिल की, लेकिन रिसर्च में हम पीछे भागे जाते हैं। उच्च स्तरीय रिसर्च के लिए युवा पीढ़ी का समय बड़ाए और समर्पण भाव से काम करें तो हमें कोई नहीं रोक सकता।

यह कहना है आइआईएससी बेंगलुरु के डॉ. पार्वसरायी मुखर्जी का। वे बुधवार को होलकर साइंस कॉलेज में रिसेट टेंडर इन बैसिक साइंसेस विषय पर आयोजित राष्ट्रीय सेमिनार में संबोधित कर रहे थे। सेमिनार में वर्ष 2015 के लिए डॉ. मुखर्जी व 2016 के लिए बनारस के इंडियन इंस्टीट्यूट ऑफ साइंस के डॉ. विनीत कुमार तिवारी को डॉ. एसएस देशपांडे स्मृति अवार्ड से नवाजा गया। मुख्य अतिथि देवी अहिल्या मुनिवर्सिटी के कुलपति डॉ. नरेंद्र धाकड़ व उच्च शिक्षा विभाग के



अतिरिक्त संचालक प्रो. केएन चतुर्वेदी थे। डॉ. तिवारी ने 'सिंधोसिस ऑफ डायवर्स' प्लासमोकोकाजुगेट्स ऑफ गैट कोमोरोसामुटिक वेल्डुज' पर प्रेजेंटेशन दिया। उन्होंने बताया, विभिन्न औषधियों की खोज की प्रक्रिया में कामोताइडेट्स के अणु महत्वपूर्ण भूमिका निभाते हैं। इस दिशा में कई देश शोध कार्य कर रहे हैं।

सभी आधारभूत विषय के केंद्र में है केमिस्ट्री

डॉ. मुखर्जी ने कहा कि बैथिस्टी विषय सभी आधारभूत विषयों के केंद्र में है। केमिस्ट्री ऑफ सोल्वेनल प्रलासक विषय पा

बोलते हुए उन्होंने कहा कि परंपरागत तौर पर पलायक में समर्थित की जाने वाली रसायनिक क्रियाओं की प्रकृति आणविक स्तर पर अविशुद्ध हो जाने पर की जाने वाली रसायनिक क्रियाओं से अलग होती है। इसी संदर्भ में समूह विश्व में कुप्रिय अणुओं का उपयोग रसायनिक क्रियाओं को अतिशुद्ध आणविक स्थानों पर करने के लिए चल रही रिसर्च में किया जा रहा है।

प्रो. धाकड़ ने छात्रों से कहा कि आप लोग ऐसे रिसर्च करें, जिससे राष्ट्रीय व अंतरराष्ट्रीय स्तर पर नाम मिल पाए। उच्च स्तरीय रिसर्च से ही आपकी पहचान स्थापित होगी। स्वागत भाषण प्रोफार्स डॉ. रूपलेखा व्यास ने दिया।

लाइव नईदुनिया

इंदौर, गुरुवार 04 अक्टूबर 2018

11

शिक्षण संस्थानों को रिसर्च पर ध्यान देने की जरूरत : डॉ. मुखर्जी



इंदौर। नईदुनिया रिपोर्टर

अधिकांश शिक्षण संस्थानों में उच्च स्तरीय शोध कार्य की कमी है। कई देश विज्ञान और तकनीकी के क्षेत्र में हमसे कदमी आगे हैं। संस्थान की उन्नति के लिए अगर सभी समर्पण भाव से काम करेंगे तो इसमें सफलता मिल सकती है। यह कहना है भारतीय विज्ञान संस्थान (आईआईएससी) बेंगलुरु के प्रोफेसर डॉ. पार्वसरायी मुखर्जी का। होलकर साइंस कॉलेज में रसायनशास्त्र विभाग

के 100 साल पूर्ण होने पर कॉलेज में विज्ञान में शोध के नए आयाम विषय पर दो दिवसीय सेमिनार की शुरुआत हुई। कार्यक्रम में रसायनशास्त्री स्व. डॉ. एसएस देशपांडे की स्मृति में नेशनल पुरस्कार दिए गए। 2015 का पुरस्कार प्रोफेसर डॉ. मुखर्जी और बनारस हिंदू मुनिवर्सिटी के रसायन वैज्ञानिक डॉ. विनीत कुमार तिवारी को दिया गया। मुख्य अतिथि देवी अहिल्या मुनिवर्सिटी के कुलपति डॉ. नरेंद्र धाकड़ और उच्च शिक्षा विभाग इंदौर के अतिरिक्त

संचालक डॉ. केएन चतुर्वेदी थे। सेमिनार में डॉ. विनीत ने कहा कि जीवन में सरल बने रहना ही महत्वपूर्ण है। कुलपति डॉ. धाकड़ ने स्टूडेंट्स से आग्रह किया कि वे ऐसा शोध काम करें जिससे दुनिया को इसका फायदा मिल सके। सेमिनार में प्रदेश के करीब 400 संस्थानों के प्रोफेसरों ने हिस्सा लिया। कार्यक्रम में जीव-रसायन विभाग द्वारा एमओयू भी साइन किया गया। प्रिंसिपल डॉ. रूपलेखा व्यास और रसायनशास्त्र विभाग की डॉ. अनामिका जीन मौजूद थे।



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National Seminar
"Recent Trends in Basic Sciences"
03rd to 04th October 2018

Organized by: Department of Chemistry, Govt. (Autonomous) Holkar Science College,
Indore [M.P.]

Sponsored By : MPCOST & SBI

FEEDBACK FORM

Name : Neha Singh Designation : PhD scholar
Institute/College : Women's Christian college Chennai [University of Madras]
Category : GEN (☒) / OBC (☐) / ST (☐) / SC (☐) Tamil Nadu
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Contact No. : 7024665082 Email : neha0128singh@gmail.com
3326758542

Were You sponsored / Deputed by your Institution?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
Were you permitted to come at your own request?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
Were the objectives of the activity communication to you in advance?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
Did you make any preparatio for participation, if yes please specify?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
Did you informed sufficiently in advance?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
Which were informed sufficiently in advance?	Yes (<input type="checkbox"/>) / No (<input type="checkbox"/>)
Which were most rewarding to you participants?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
Which activity were least valuable to the participants?	
What activities would have enhanced the value of the seminar/workshop?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
How far, in your opinion, the academic experience is likely be useful to you and/or institution and in what way(s)?	
Would you like participapation in similar activitites in future?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
In what way(s) in your opinion, can such activities be made more valuable?	Yes (<input type="checkbox"/>) / No (<input checked="" type="checkbox"/>)
Laoding	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
Boarding	Yes (<input type="checkbox"/>) / No (<input checked="" type="checkbox"/>)
Transport	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)

Place : Indore.

Date : 4/10/18

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National Seminar
"Recent Trends in Basic Sciences"
03rd to 04th October 2018

Organized by: Department of Chemistry, Govt. (Autonomous) Holkar Science College,
Indore [M.P.]

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FEEDBACK FORM

Name : Dr. Satish N. Vaishnav Designation : Assit. Prof.
Institute/College : Sardar V.P. Arts & Sci. College, Ainpur Tal-Raver
Category : GEN () / OBC (☒) / ST () / SC () Dist. Jalgaon (M.S.)
Sex : M (☒) / F ()
Address : S.V.P. College, Ainpur, Tal-Raver, Dist-Jalgaon (M.S.)
Contact No. : 9975675010 Email : satish_vaiashnav@rediffmail.com

Were You sponsored / Deputed by your Institution?	Yes() / No(<input checked="" type="checkbox"/>)
Were you permitted to come at your own request?	Yes(<input checked="" type="checkbox"/>) / No()
Were the objectives of the activity communication to you in advance?	Yes(<input checked="" type="checkbox"/>) / No()
Did you make any preparatio for participation, if yes please specify?	Yes() / No(<input checked="" type="checkbox"/>)
Did you informed sufficiently in advance?	Yes(<input checked="" type="checkbox"/>) / No()
Which were informed sufficiently in advance?	Yes(<input checked="" type="checkbox"/>) / No()
Which were most rewarding to you participants?	Yes() / No()
Which activity were least valuable to the participants?	
What activities would have enhanced the value of the seminar/workshop?	Yes() / No()
How far, in your opinion, the academic experience is likely be usful to you and/or institution and in what way(s)?	
Would you like particiapation in similar activitites in future?	Yes(<input checked="" type="checkbox"/>) / No()
In what way(s) in your opinion, can such activities be made more valuable?	Yes() / No()
Laoding	Yes() / No()
Boarding	Yes() / No()
Transport	Yes() / No()

Place : Indoor

Date : 03/10/18

Satish N. Vaishnav
Signature



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National Seminar
"Recent Trends in Basic Sciences"
03rd to 04th October 2018

Organized by: Department of Chemistry, Govt. (Autonomous) Holkar Science College,
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FEEDBACK FORM

Name : DR. VINOD K. PARASHAR Designation : PROFESSOR
Institute/College : GOVT. MOTILAL VIGYAN MAHAVIDYALAYA (MVV), BHOPAL
Category : GEN (☒) / OBC (☐) / ST (☐) / SC (☐)
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Ideah Hills, Bhopal
Contact No. : 9827255586 Email : vinpara2003@yahoo.com

Were You sponsored / Deputed by your Institution?	Yes (<input checked="" type="checkbox"/>) / No (<input checked="" type="checkbox"/>)
Were you permitted to come at your own request?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
Were the objectives of the activity communication to you in advance?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
1 (X) Did you make any preparatio for participation, if yes please specify?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
Did you informed sufficiently in advance?	Yes (<input checked="" type="checkbox"/>) / No (<input type="checkbox"/>)
Which were informed sufficiently in advance?	NA Yes (<input type="checkbox"/>) / No (<input type="checkbox"/>)
Which were most rewarding to you participants?	? Yes (<input type="checkbox"/>) / No (<input type="checkbox"/>)
Which activity were least valuable to the participants?	NO activity is valuable Yes (<input type="checkbox"/>) / No (<input type="checkbox"/>)
What activities would have enhanced the value of the seminar/workshop?	? Yes (<input type="checkbox"/>) / No (<input type="checkbox"/>)
2 (X) How far, in your opinion, the academic experience is likely be usful to you and/or institution and in what way(s)?	
Would you like particiapation in similar activitites in future?	Yes (<input type="checkbox"/>) / No (<input checked="" type="checkbox"/>)
3 (X) In what way(s) in your opinion, can such activities be made more valuable?	Yes (<input type="checkbox"/>) / No (<input type="checkbox"/>)
Laoding	NA Yes (<input type="checkbox"/>) / No (<input type="checkbox"/>)
Boarding	NA Yes (<input type="checkbox"/>) / No (<input type="checkbox"/>)
Transport	NA Yes (<input type="checkbox"/>) / No (<input type="checkbox"/>)

Place : Indore

Date : 3/10/18

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Signature
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Please turn over for remarks





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National Seminar
"Recent Trends in Basic Sciences"
03rd to 04th October 2018

Organized by: Department of Chemistry, Govt. (Autonomous) Holkar Science College,
Indore [M.P.]

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FEEDBACK FORM

Name : Dr. Dashrath Singh Rathore Designation : Asstt. Professor
Institute/College : Govt. Mahatma Gandhi College, JAWAR, Distt.-Neemuch
Category : GEN (☒) / OBC (☐) / ST (☐) / SC (☐)
Sex : M (☒) / F (☐)
Address : Govt. M. G. College Jawar
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Were You sponsored / Deputed by your Institution?	Yes(<input type="checkbox"/>) / No(<input checked="" type="checkbox"/>)
Were you permitted to come at your own request?	Yes(<input checked="" type="checkbox"/>) / No(<input type="checkbox"/>)
Were the objectives of the activity communication to you in advance?	Yes(<input checked="" type="checkbox"/>) / No(<input type="checkbox"/>)
Did you make any preparatio for participation, if yes please specify?	Yes(<input checked="" type="checkbox"/>) / No(<input type="checkbox"/>)
Did you informed sufficiently in advance?	Yes(<input checked="" type="checkbox"/>) / No(<input type="checkbox"/>)
Which were informed sufficiently in advance?	Yes(<input checked="" type="checkbox"/>) / No(<input type="checkbox"/>)
Which were most rewarding to you participants?	Yes(<input checked="" type="checkbox"/>) / No(<input type="checkbox"/>)
Which activity were least valuable to the participants?	<u>Nil</u>
What activities would have enhanced the value of the seminar/workshop?	Yes(<input type="checkbox"/>) / No(<input type="checkbox"/>)
How far, in your opinion, the academic experience is likely be useful to you and/or institution and in what way(s)?	<u>useful for Students</u>
Would you like particiapation in similar activitites in future?	Yes(<input checked="" type="checkbox"/>) / No(<input type="checkbox"/>)
In what way(s) in your opinion, can such activities be made more valuable?	Yes(<input type="checkbox"/>) / No(<input checked="" type="checkbox"/>)
Laoding	Yes(<input type="checkbox"/>) / No(<input checked="" type="checkbox"/>)
Boarding	Yes(<input type="checkbox"/>) / No(<input checked="" type="checkbox"/>)
Transport	Yes(<input type="checkbox"/>) / No(<input checked="" type="checkbox"/>)

Place : Indore

Date : 04.10.2018

Rathore
Signature 04.10.2018

(D. S. RATHORE)



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National Seminar

"Recent Trends in Basic Sciences"

03rd to 04th October 2018

Organized by: Department of Chemistry, Govt. (Autonomous) Holkar Science College,
Indore [M.P.]

Sponsored By : MPCOST & SBI

FEEDBACK FORM

Name : Deepika Geedkar Designation: Research scholar

Institute/College: School of Chemical Sciences, DAVV Indore

Category : GEN () / OBC (✓) / ST () / SC ()

Sex : M () / F (✓)

Address : 374, Sch no 51, Indore, M.P.

Contact No. : 7354135447 Email : deepikageedkar7@gmail.com

Were You sponsored / Deputed by your Institution?	Yes() / No(✓)
Were you permitted to come at your own request?	Yes(✓) / No()
Were the objectives of the activity communication to you in advance?	Yes() / No()
Did you make any preparatio for participation, if yes please specify?	Yes() / No()
Did you informed sufficiently in advance?	Yes(✓) / No()
Which were informed sufficiently in advance?	Yes(✓) / No()
Which were most rewarding to you participants?	Yes(✓) / No()
Which activity were least valuable to the participants?	
What activities would have enhanced the value of the seminar/workshop?	Yes() / No()
How far, in your opinion, the academic experience is likely be useful to you and/or institution and in what way(s)?	
Would you like particiapation in similar activitites in future?	Yes(✓) / No()
In what way(s) in your opinion, can such activities be made more valuable?	Yes(✓) / No()
Laoding	Yes() / No()
Boarding	Yes() / No()
Transport	Yes() / No()

Place: Holkar College, Indore

Date: 09/10/18

Deepika
Signature

RTBS-2018

Chief Patron
Dr. K.N. Chaturvedi
Additional Director, Higher Education,
Indore Division

Patron
Dr. Rooplekha Vyas
Principal, Govt. Holkar Science College,
Indore [M.P.]
Mob. : 09425903517

Convener
Dr. Anamika Jain
Head, Deptt. Of Chemistry
Govt. Holkar Science College, Indore [M.P.]
Ph. No. : 09826299191

Co-Convener
Dr. Vijay R Chourey
Professor, Deptt. of Chemistry
Ph. No. : 09425884269

Advisory Committee

Dr. M.M.P. Shrivastava

Dr. P.K. Sharma.

Dr. R.C. Dixit

Dr. Arun Kher

Dr. Sanjay Vyas

Dr. Sanjeeda Iqbal

Dr. Mangla Choragade

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Dr. Kiran Billore

Dr. H.S. Dagar.

Dr. Kishore Panwar

Dr. Indu Tiwari

Dr. Manorama Agrawal

Dr. Vishnu Gadgil

Dr. Ravindra Garg

RTBS-2018

Organizing Committee

Dr. Rekha Killedar

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Dr. Vijayshri Nilosey

Dr. M.K. Dwivedi

Dr. Geetha Sarasan

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Dr. Neelima Pradhan

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Dr. Sandeep Gohar

Dr. Pramila Kori

Dr. Ashok Barua

Dr. Prakash Solanki

Dr. Laxmi Tantuiway

Dr. Pushpa Makwane

Dr. G.P. Dangi

Prof. Amrith Gupta

Dr. Tripti Kamalpuria

Dr. Megha Chourey

Dr. Navita Khosla

Prof. Preeti Burve

Celebrating 100 Years of Chemistry Department National Seminar on "Recent Trends in Basic Sciences" 3rd & 4th October 2018

(Dedicated to Honorable Late Dr. S.S. Deshpande)



Organized By Department of Chemistry

Govt. Holkar

(Model, Autonomous)

Science College

(Center for Excellence)

Indore [M.P.]

Email: rtbshsc2018@gmail.com

Prestigious

"Dr. S.S. Deshpande Award"

will be given for the year 2015 & 2016.

RTBS-2018

INVITATION

On the occasion of its 100th anniversary, the Department of Chemistry takes immense pleasure in inviting you to participate in a two day National Seminar on "Recent Trends in Basic Sciences" to be held on 3rd and 4th October 2018 at Govt. Holkar (Model, Autonomous) Science College Indore [M.P.] (Center for Excellence).

ABOUT INDORE

Indore is a historical city which used to be the capital of the Holkar state. It is remembered for revered Queen Ahilya Bai Holkar who was a great custodian of religion. Indore is well known for arts, sculpture and culture. Indore is not only the Industrial Capital of Madhya Pradesh but it is also recognized as an educational hub in Central India.

ABOUT THE COLLEGE

Govt. Holkar Science College was established on 10th of June, 1891 by HH Maharaja Shivaji Rao Holkar in the fond memory of his father Maharaja Tukoji Rao Holkar to meet the requirement of education in the central provinces. Ever since its inception the college has remained a pioneer in the field of higher education. The college steadfastly adheres to its motto of imparting instruction in science with the emphasis on scientific research work at UG & PG levels. The college occupies a prominent place in Madhya Pradesh. Students from all over the state and neighboring areas pursue education in this prestigious co-ed institution. The college has been accredited 'A' grade by NAAC in 2016.

RTBS-2018

Excellence seems to have remained a watchword of this 127 years old institution, which is why recently the state govt. has declared it as "College of Excellence". During the course of its long journey the college has produced a number of eminent scholars and researchers.

ABOUT THE SEMINAR

The seminar aims at celebrating 100 years of establishment of the Chemistry Department. The objective of seminar is to give platform to the faculty members and researchers for presenting their contribution in "Recent Trends in Basic Sciences". It will focus on real world applications of "Recent Trends in Basic Sciences" and how these trends can be decentralized and popularized for the benefit of the society.

The seminar would provide opportunity for collaboration and networking among institutions for promoting research and to build industry-university-government partnership. The participants would be encouraged to discuss, debate and deliberate ideas and innovative information to promote the application of basic science concepts for the welfare of the society. As basic science is involving itself with substantial inputs, the seminar will also create awareness about the importance of interdisciplinary research in different areas of science.

GUIDELINES FOR AUTHORS

- ★ Title - Times New Roman, 14 PT Bold, centered
- ★ Names of authors-Times New Roman, Font 12
- ★ Application -Times New Roman, font 12, Italics centered

RTBS-2018

- ★ Email : rtbshsc2018@gmail.com
- ★ The Text-Times New Roman, Font 12, single space, two line space after the e-mail.
- ★ The references - Times New Roman, font 10, single space at the end of the text leaving one blank space.
- ★ Initials first, journal's name italicized, Volume number, starting page number and year of publication in parentheses.

REGISTRATION FEE DETAILS

Students/R. Scholars	Guest Faculty	Academician
400/-	700/-	1000/-

WHERE TO SEND ABSTRACT :

- 1. All the abstracts for paper with references should be sent in MS word format as a authors name.doc file
- 2. The abstract for poster and registration forms to be send as an electronic version by email to rtbshsc2018@gmail.com
- 3. Last date of submission - 10th September 2018.
- 4. Notification of acceptance of abstract - 15th September 2018.
- 5. Papers are invited for poster with size 3' X 4' and not for the oral presentation.
- 6. Best Poster will be awarded

Key Note Speakers

1. **Dr. Partha Sarthi Mukharjee**
Professor, Inorganic & Physical Chemistry
Indian Institute of Science, Bangalore-560012
Karnataka [India]
2. **Dr. Vinod Kumar Tiwari**
Head, Synthesis & Pure Material Section
Professor of Chemistry
Institute of Science, Banaras

Celebrating 100 Years of Chemistry Department

National Seminar on "Recent Trends in Basic Sciences"

3rd & 4th October 2018

(Dedicated to Honorable Late Dr. S.S. Deshpande)

Registration Form

1. Name : Dr./Mr./Mrs.

2. Designation

3. Department/Institution :

4. Contact details:

a. Mob. No.

b. E-mail ID:

5. Title of Paper (for abstract/Poster presentation only):

6. Academician / Student/ Research Scholars /
Guest Faculty :

7. Registration Fee Details:

Students/ ResearchScholars	Guest Faculty	Academician
400/-	700/-	1000/-

Date :

Signature.....

Convener Registration Committee

Dr. Aparna Gandhe

Mobile No. : 09424841995

Email ID: rtbshsc2018@gmail.com

Program Schedule

3RD OCTOBER 2018 (WEDNESDAY):

Registration & Refreshment	9:00 to 10:00 am
Inaugural Function:	
Official Souvenir Release by Chief Guest	10:40 am
Welcome Address by Principal (Dr. Rooplekha Vyas)	10:45 am
About RTBS by HOD, Chemistry Dept (Dr. Anamika Jain)	10:50 am
Dr. S.S. Deshpande Award Ceremony: <ul style="list-style-type: none"> • Dr. Vinod Kumar Tiwari – BHU (2015) • Dr. Partha Sarathi Mukherjee – IISc, Bangalore(2016) Memento Presentation: <ul style="list-style-type: none"> • VC, DAVV (Dr. N.K. Dhakad)) • AD, Indore Division, HE ((Dr.K.N. Chaturvedi) • JBA (Mr. Surinder Singh Chhabra) 	11:00 am
Address by: <ul style="list-style-type: none"> • Dr. Vinod Kumar Tiwari – BHU • Dr. Partha Sarathi Mukherjee – IISc, Bangalore • AD, Indore Division, HE ((Dr.K.N. Chaturvedi) • VC, DAVV (Dr. N.K. Dhakad)) 	11:30 am
Vote of Thanks by Dr. Vijay R Chourey, Co-Convener	12: 15 pm
Keynote Lecture by Dr. V.K. Tiwari (<i>Topic: Facile Synthesis of Diverse Glycoconjugates of Great Chemotherapeutic Values</i>)	12:20 pm
Lunch Break-	1:00 pm – 2.30 pm
Keynote Lecture by Dr. Partha Sarathi Mukherjee, IISc, Bangalore (<i>Topic: Chemistry in Molecular Flasks</i>)	2:30 pm
Expert Lecture by Dr. K.K. Verma, RDU, Jabalpur (<i>Topic: Applications of FTIR</i>)	3:30 pm
End of Program - Tea	4:00 pm

4TH OCTOBER 2018 (THURSDAY):

Refreshment	09:00 am to 10:45 am
Expert Lecture by Dr. M.K. Tiwari (<i>Topic: X-ray fluorescence of bulk and thin nanostructured materials using Indus-2 facility</i>)	11:00 pm
Expert Lecture by Dr. S.K. Bhatnagar, Director, Bio-Medical Research Centre, Gwalior M.P. (<i>Topic: Carcinogenic chemistry of aerosol by natural and synthetic chemistry to sustain our coming generation</i>)	11:45 am
Expert Lecture by Dr. Ashok Sharma, HOD & Dean, School of Chemical Sciences, DAVV, Indore (<i>Topic: A Deep Insight into the Synthesis and Theoretical Aspects of Azoles: A Fascinating class of Heterocycles</i>)	12:30 pm
Lunch Break	1:00 – 2:00 pm
Poster Presentation	2:00 pm
Valedictory Function- (Tea/Snacks)	3:30 pm



**Government Holkar (Model, Autonomous)
Science College, Indore (M.P.)**

Center for Excellence, Accredited Grade 'A' by NAAC

National Seminar on

"Recent Trends in Basic Sciences - RTBS 2018"

Organized by : Department of Chemistry
(Dedicated to Honorable Late Dr. S.S. Deshpande)

3rd & 4th October 2018

Certificate



Late Dr. S.S. Deshpande

This is to certify that Dr. / Prof./Mr./Ms.Kirti Yadav.....
ofKasturba Gram Rural Institute, Indore... has presented (oral/poster),
/ submitted research paper / delivered invited lecture / participated, in the National
Seminar on "Recent Trends in Basic Sciences - RTBS 2018" held at Indore on October
3rd & 4th 2018.

Title of abstract : A review on methods adopted to prepare
Carbon Dots.....

Jain

Dr. Anamika Jain
HOD & Convener

V. Chourey

Dr. Vijay R. Chourey
Co-convenor

Dr. Rooplekha Vyas
Patron & Principal

Date	Name	Email & Phone	Comments
4/10/2018	DR ARUN SINGH Professor of Chemistry Govt. M. G. College College Shoppi	dr.arunsingh62@gmail.com 9425011662	Good going Keep it up.
4/10/2018	Rohan Gupta Noble Achem Pvt. Ltd. (Agro-biotech) Indore	rohangupta777@gmail.com 9981213000	Excellent Organized Seminar
	Mahesh Govisakar Govt. P. G. College, Sengwa	22 kavseendhu@gmail.com 9826087336	Very well organized. Concludes.
	Bhikarsingh Sonari Govt. College Samarwadi	sonari-bhikarsingh@gmail.com 989926569268	Very well organized concludes.

Date	Name	Email & Phone	Comments
3/10/2018	Dr. M. S. Chhabra	930114350707	excellent organisation, congratulatory,
3/10/2018	Prof. Partha Sarathi Mukherjee IISC Bangalore		I am delighted to be part of this programme. Everything has worked nicely. I wish all the students and faculty of the college every success in their career. Enjoy
3 Oct 2018	Prof. Krishna K Venar Raja Prudhmal Chaudhary RD Univ Jabalpur		I am very favourably impressed by the scientific presentation; and an having opportunity to meet distinguished researchers in the field, RD students who are in faculty here, and the young energetic students of college. May God Bless us. KKV
3/10/2018	Prof (Associate) Dr. Vinod Tiwari B.H.U., Varanasi	9451896061 Vinod.Tiwari@bhu.ac.in	I am extremely happy to be here in Holkar science college, Varanasi Indore. & also I would like to express my sincere thanks to Prof Ramesh Chandra Dr Jain, Dr. Barua and other faculty members for great local hospitality. Conference was really excellent in all aspect. Thanks to Dr. S. S. Deshpande Ahmed

Date	Name	Email & Phone	Comments
4.10.2018	Dr. S.K. Bhatnagar Director, Bio Medical Res. Centre Gwalior MP	bhatnagarsent@ gmail.com	Nice Conference organized by organizer with recent informative topics. Let us share blessings for this conference.
4.10.2018	Dr. Rakesh Saxena Director SCSITS Indore (MP)	9425055536 ropeshsaxena@ hotmail.com	with vibrant & energetic atmosphere. the workshop ended with a good result of the departmental efforts & volunteer creativity. Saxena



Dear Dr. Jain,

I am to inform my arrival at Bangalore this evening. It is needless to mention that I enjoyed thoroughly my visit to your college and the interactions that I had with the Principal and other colleagues. I sincerely thank you and your colleagues for nice arrangements and the kind hospitality. I wish every success for the students and faculty of your college.

Please find attached a copy of the return boarding pass in case if you need it for settlement of the account.

Many thanks and kind regards

Partha Sarathi Mukherjee

Dr. Partha Sarathi Mukherjee
Associate Editor - Inorganic Chemistry
Department of Inorganic and Physical Chemistry
Indian Institute of Science
Bangalore-560012

E-mail:
psm@iisc.ac.in
part_dip@hotmail.com

Phone:
+91-80-2293-3352(Office)
+91-80-2360-0023(Home)
+91-9986-248948(mobile)

Many thanks,

Madam for so nice academic support and great local hospitality during my stay at Indore. I always miss this heart touching experience in the form of Dr S S Deshpande National Award-2015. Your conference was very successful and I impressed with your chemistry department. Whenever I receive an opportunity, I will be happy to be available for your college.

Once again many thanks to you and your team especially Dr. Barua.

Please convey my best regards to Professor Rooplekha Vyas.

With best regards

VKT

=====

Dr. Vinod Kumar Tiwari

MSc (BHU); PhD(CDRI-JNU); MRSC

Associate Professor, Organic Chemistry

Department of Chemistry

Banaras Hindu University

Varanasi-221005, India

E-mail:Tiwari_chem@yahoo.co.in

Dear Professor Jain,

Many thanks for your kind letter on the participation in RTBS, Indore.

I am deeply impressed by the generosity and deep interest of yourself, faculty members, and the madam Principal of college in deliberations on basic sciences and for concern in developing scientific temper among growing students of your esteemed college.

Needless to say, I had wonderful time in your college during the conference that was professionally beneficial and personally enjoyable. It was indeed a great pleasure to meet old students and other faculty members.

I also wish to thank your organizing staff and student volunteers for their untiring zeal to provide us every comfort in accommodation, food and travelling.

Last but not the least, I appreciate your postgraduate and graduate students—whom I met in campus and shared their views on campus life.

My personal regards to Madam Principal and to you.

Archana fondly remembers you.

I wish you all Good Luck.

With regards.

Krishna Verma

=====

Prof. Krishna K. Verma
DSc, CChem, FRSC
8 Gulmohar Gaurav
Pachpedi
Jabalpur 482001
Madhya Pradesh
India

Mobile: 8989430207

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**SKILL DEVELOPMENT PROGRAM
2022-23**

S. No	Component/Activities	Details																											
1	Name of the Department / Unit / Agency:	Department of Physics																											
2	Name of the Activity:	Thematic Webinar on the International Year of Basic Sciences for Sustainable Development																											
3	Name of the Scheme:	Online Webinar																											
4	Date and Year of the Activity:	09/08/2022																											
5	Number of Students Participated in the activity:	121																											
6	Report of the Activity (in 100 words):	<p>Department of Physics & IQAC, Govt. Holkar (Model, Autonomous) Science College Indore was organized an online webinar on “Thematic Webinar on the International Year of Basic Sciences for Sustainable Development”. The agenda for Sustainable Development is the ambitious agenda adopted by United Nations member states to ensure the planet's balanced, sustainable, and inclusive development. The contributions of basic, curiosity-driven sciences are undervalued. Nonetheless, they constitute the foundation of key technological developments that promote innovation and are essential for teaching future workforce and strengthening the capacity of communities to participate in future-determining decisions. Therefore, the focus of this webinar is to bring links between basic sciences and the Sustainable Development Goals.</p> <p>The Inauguration of this webinar was given by Dr. Suresh T. Silawat, Additional Director, Indore Division and Principal, Govt. Holkar (Model, Autonomous) Science College. Following members were worked as :</p> <table> <thead> <tr> <th>S.No</th><th>Name</th><th>Worked as</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Dr. Suresh T. Silawat</td><td>Chief Patron</td></tr> <tr> <td>2.</td><td>Dr. G.D. Gupta</td><td>Patron</td></tr> <tr> <td>3.</td><td>Dr. R.C. Dixit</td><td>A.O.</td></tr> <tr> <td>4.</td><td>Dr. Bijendra Rai</td><td>NAAC Coordinator</td></tr> <tr> <td>5.</td><td>Dr.Nagesh Dagaonkar</td><td>IQAC Coordinator</td></tr> <tr> <td>6.</td><td>Dr. Swagata Gupta</td><td>Advisor</td></tr> <tr> <td>7.</td><td>Dr. Pramila Kori</td><td>NAAC Facilitator</td></tr> <tr> <td>8.</td><td>Dr. Netram Kaurav</td><td>Organizing Secretary</td></tr> </tbody> </table>	S.No	Name	Worked as	1.	Dr. Suresh T. Silawat	Chief Patron	2.	Dr. G.D. Gupta	Patron	3.	Dr. R.C. Dixit	A.O.	4.	Dr. Bijendra Rai	NAAC Coordinator	5.	Dr.Nagesh Dagaonkar	IQAC Coordinator	6.	Dr. Swagata Gupta	Advisor	7.	Dr. Pramila Kori	NAAC Facilitator	8.	Dr. Netram Kaurav	Organizing Secretary
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8.	Dr. Netram Kaurav	Organizing Secretary																											

REC LIVE ANATOMY OF THE HUMAN BODY

Abdul is presenting

REC LIVE Apoptosis

Abdul is presenting

REC LIVE Types of Cancer Treatment

Abdul is presenting

REC

LIVE

Ionising radiation - Protection Dose quantities in SI units

Quantity	Absorbed dose D_T	Equivalent dose H_T	Effective dose E
SI unit or modifier	gray (Gy)	sievert (Sv)	sievert (Sv)
Derivation	joule/kg	joule/kg	joule/kg
Meaning	Energy absorbed by irradiated sample of matter - a physical quantity.	Biological effect of radiation type R with weighting factor W_R . Multiple radiation types require calculation for each, which are then summated.	Biological effect on tissue type T having weighting factor W_T . Partial irradiation Effective dose = summation of organ doses to those parts irradiated. Complete (uniform) irradiation If whole body irradiated uniformly, the weightings W_T summate to 1. Therefore, Effective dose = Whole body Equivalent dose.


$D_T \xrightarrow{W_R} H_T \xrightarrow{W_T} E$

All parts of body uniformly irradiated: $W_T = 1$
 Only some parts of body irradiated: tissues T_1, T_2, T_3 , etc.

Abdul is presenting

REC

LIVE



Abdul is presenting

A

Abdul

Pradeep

You

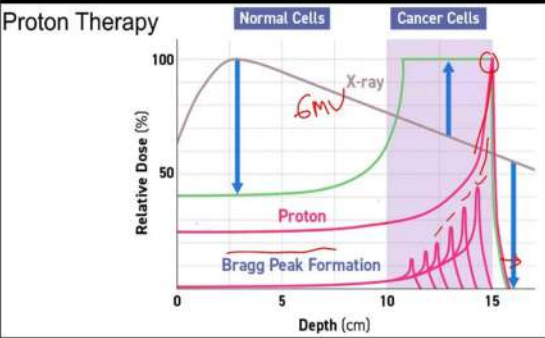
IQAC

56 others

REC

LIVE

Proton Therapy



Abdul is presenting

A

Abdul

Pradeep

You

IQAC

52 others

आमंत्रण

THEMATIC WEBINAR ON THE INTERNATIONAL
YEAR OF BASIC SCIENCES FOR SUSTAINABLE
DEVELOPMENT

मुख्य अतिथि



डॉ सुरेश टी. सिलावट
अतिरिक्त संचालक, उच्च शिक्षा विभाग, इंदौर संभाग
एवं
प्राचार्य, शासकीय होलकर (आदर्श, स्वशासी) विज्ञान
महाविद्यालय इंदौर (म.प्र.)

09 अगस्त, 2022

समय प्रातः 09.15 बजे से 10.30 बजे तक

आयोजक: भौतिकी विभाग, आईक्यूएसी

🙏 Invitation 🙏

**THEMATIC WEBINAR ON THE INTERNATIONAL
YEAR OF BASIC SCIENCES FOR SUSTAINABLE
DEVELOPMENT**

Inaugural Note



Prof. Yung-Kang Kuo
Professor & Provost
National Dong Hwa University,
Hualien, Taiwan

09 August, 2022

Time: 09.15 AM to 10.30 AM

Organizers: Department of Physics & IQAC



Invitation



**THEMATIC WEBINAR ON THE INTERNATIONAL
YEAR OF BASIC SCIENCES FOR SUSTAINABLE
DEVELOPMENT**



Lecture

DR. ABDUL K. PARCHUR
Medical Physics Resident
Radiation Oncology, Medical College of
Wisconsin, USA

09 August, 2022

Time: 09.15 AM to 10.30 AM

Organizers: Department of Physics & IQAC



Thematic Webinar on the International Year of Basic Sciences for Sustainable Development

Department of Physics, Government Holkar (Model, Autonomous) Science College, A. B. Road, Indore (MP)-452001

09-Aug, 2022 To 09-Aug, 2022

Timestamp	Event Details	Speaker
9.20 AM	Joining of participant at online platform Google Meet	Join online at Google Meet joining info https://meet.google.com/jge-uyfn-uhj Live Stream https://stream.meet.google.com/stream/5178a806-ef29-4c63-8ebf-0062f54ec505 https://youtu.be/PSIOYp6IGk0
9.30AM to 9.32AM	Starting of event, Introduction of event, Inviting Principal Sir for his inaugural address	Dr. Nagesh Dagaonkar
9.32AM to 9.35AM	Inaugural Address	Dr. Suresh T. Silawat
9.35AM to 9.36AM	Inviting Vice Principal Sir for his Inaugural Address	Dr. Nagesh Dagaonkar
9.36AM to 9.38AM	Inaugural Address	Dr. G. D. Gupta
9.38AM to 9.39AM	Inviting Dr. Bhawana Chourasia to Introduce Prof. Y. K. Kuo, Professor and Dean, Department of Physics, National Dong Hwa University, Hualien, Taiwan	Dr. Nagesh Dagaonkar
9.39 AM to 9.42 AM	Introduction of Prof. Kuo	Dr. Bhawana Chourasia
9.42 AM to 9.46 AM	Inaugural Note By Prof. Kuo	Prof. Y. K. Kuo,
9.46 AM to 9.47 AM	Inviting Dr. V.V.S. Murthy to Introduce DR. ABDUL K. PARCHUR, Medical Physics Resident, Radiation Oncology, Medical College of Wisconsin, USA	Dr. Nagesh Dagaonkar
9.47 AM to 9.50 AM	Introduction of Dr. PARCHUR	Dr. V.V.S. Murthy
9.50 AM to 10.30 AM	Lecture: Introduction to medical physics and nanomedicine for cancer treatment.	DR. ABDUL K. PARCHUR
10.30 AM to 10.35 AM	Q & A Session	Moderated by Dr. R. C. Dixit/ Dr. Nagesh Dagaonkar
10.35 AM to 10.36 AM	Inviting Dr. Netram Kaurav for Vote of Thanks to the Guests, speaker and audience	Dr. Nagesh Dagaonkar
10.36 AM to 10.40 AM	Vote of Thanks and Concluding Remarks	Dr. Netram Kaurav

Department of Physics

Government Holkar (Model Autonomous) Science College, Indore

IQAC Cell

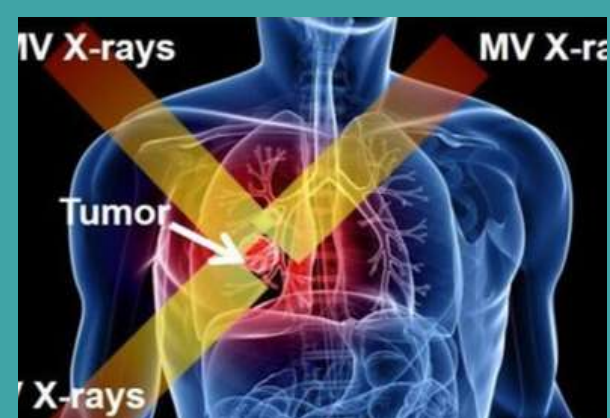
Government Holkar (Model Autonomous) Science College, Indore



Department of Physics, Govt. Holkar (Model, Autonomous) Science College, Indore (MP)

THEMATIC WEBINAR ON THE INTERNATIONAL YEAR OF BASIC SCIENCES FOR SUSTAINABLE DEVELOPMENT

The focus of this webinar is to bring links between basic sciences and the Sustainable Development Goals.



4 QUALITY EDUCATION



AUGUST 9, 9.30 AM TO 10.30 AM ONLINE MODE



Chief Patron:

Dr. Suresh T. Silawat,

Additional Director, Indore Division
Principal, Govt. Holkar [Model, Autonomous] Science College, Indore (MP)-INDIA



Prof. Y-K Kuo

Professor & Dean,
Department of Physics,
National Dong Hwa University,
Hualien, Taiwan

Introduction to Medical Physics and Nanomedicine for Cancer Treatment

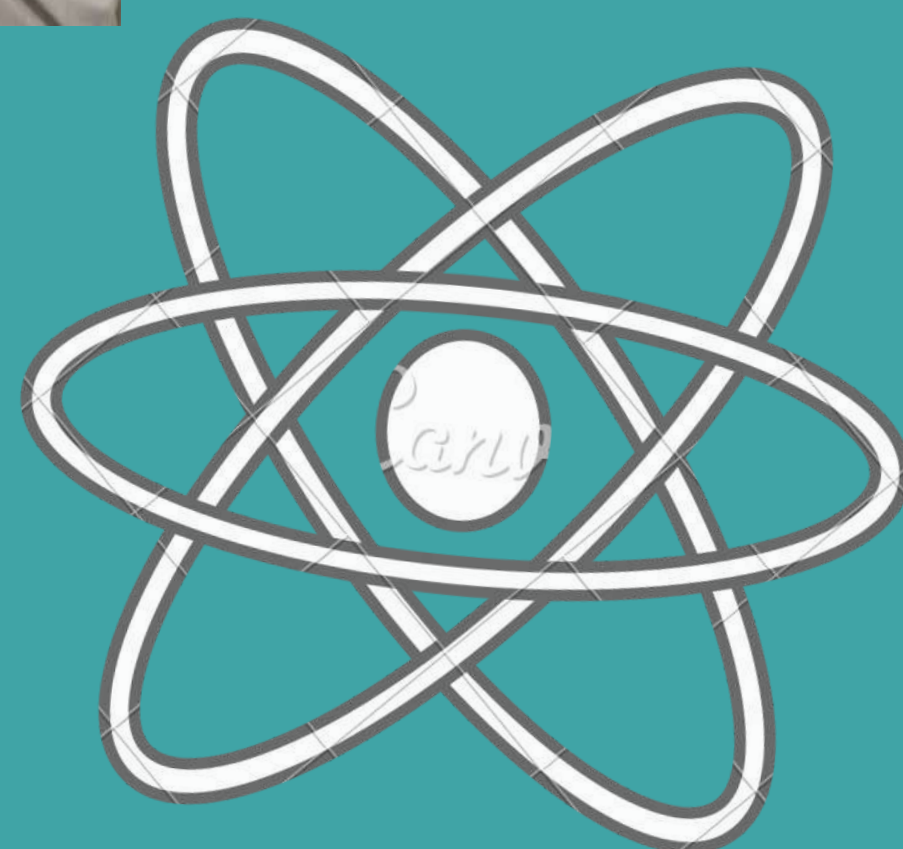


Abdul K. Parchur, PhD

Medical Physics Resident
Radiation Oncology

Froedtert Hospital & Medical College of Wisconsin, USA

<https://kareemskpa.weebly.com/>



Webinar Homepage for Details and Registration:
<https://webinar.holkar.org/home/PHYS2201/NzkwMg==>



<https://meet.google.com/jge-uyfn-uhj>

ORGANIZERS

Dr. G. D. Gupta

Dr. R. C. Dixit

Vice-Principal & HOD

Administrative Officer

Dr. Nagesh Dagaonkar

Dr. NetramKaurav

IQAC Coordinator

Organizing Secretary

Join us at www.lms.holkar.org



Organizers at a Glance

Department of Physics

Dr. G. D. Gupta	Dr. P. K. Sharma
Dr. R. C. Dixit	Dr. Nagesh Dagaonkar
Dr. V.V.S. Murthy	Dr. H. S. Dager
Dr. Saligram Verma	Dr. Bhawana Chourasia
Dr. Shubhangi Soni	Dr. Netram Kaurav
Dr. Nidhi Parmar	Prof. Vinod Rathore
Prof. Sheetal Malviya	
Dr. M. P. Mishra	Dr. Vinay Dashore
Dr. Prasad Deshpande	Dr. Khushboo Purohit
Prof. Tarun Garg	Prof. Rakhi Verma
Dr. Kratika Shukla	Prof. Vishal Tandan
Prof. Taruna Verma	

Non Teaching Staff (PHYSICS)

Shri D. K. Sharma	Dr. Neeraj Soni
Shri Vishal Nagar	Shri Suresh Mekale
Shri D. Maheshwari	Shri Leeladhar Karole
Shri Kaluram Mehta	Shri Gokul Nagar
Shri Dinesh Nagar	Shri Vishal Chouhan
Shri Sadashivpuri	Shri Kamal Sen

Alumni Students Representation

Prof. Ravi Rathore
Dr. Pavitra Devi Lodhi
Dr. Riya Neema

Students Representations

M.Sc. II & III SEM, 2021-22

MOU Representation

Prof. Y-K Kuo,
National Dong Hwa University,
Hualien, Taiwan

Industry Representation

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Prof. Vinod Rathore
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Dr. Ravindra Garg
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Dr. G. D. Gupta
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Yung-Kang Kuo's received his Ph. D. degree in 1995. He joined the Department of Physics, National Dong Hwa University, Taiwan, in 1998. He has been the Dean of the College of Science and Engineering from 2016 to 2022, and he is now the provost. His expertise is in experimental condensed matter physics. His experimental techniques include designing and operating high precision calorimetric measurements on extremely small crystals, thermal expansion measurements using a capacitance dilatometer, Seebeck coefficient and thermal conductivity measurements by direct-pulse technique, and high precision electrical transport measurements. His main research interest is studying phase transitions in strongly correlated electron systems, such as charge-density-wave transition, order-disorder transition, superconducting transition, magnetic transition, etc. Besides, he is also interested in functional materials, such as thermoelectric materials, metal silicides, Heusler compounds, and shape memory alloys. He has published about 190 SCI papers.

Abdul K. Parchur, PhD

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SUMMARY

- Developing Machine Learning-based tools to improve therapeutic outcomes in magnetic resonance image-guided adaptive radiation therapy and integrate them into the clinical workflow.
- Participate in testing radiation beam characteristics, image quality, radiation safety, dose delivery/calculation accuracy, and clinical/QA workflow procedures.
- Perform patient specific quality assurance using ArcCHECK (Sun Nuclear) to evaluate intensity modulated radiation therapy (IMRT) plans in the clinic.
- Practice Radiation Therapy, *in vivo* animal real time dynamic imaging (MR, CEST, X-ray - CT, NIR, SWIR fluorescence imaging) followed remote-triggered therapies (Ultrasound, X-ray, RF, NIR light triggering), Interpret, analyze results and administer statistical methods.
- Dynamic contrast enhancement Magnetic Resonance Imaging guided cancer therapy, perfusion model analysis and radiation induced lung damage using CT imaging.
- Expertise in designing and developing novel colloidal nanomaterials, liposomes, optical, magnetic, and plasmonic properties, and surface functional modification, chemical synthesis to develop new nanomedicine applications with a strict GLP protocol.
- To collaborate with a team of experts, medical physicists, MD's, dosimetrist, radiation therapists to define new approaches to clinical problems, willing to learn clinical workflows, leadership, and effective communicator.

SKILLS

Radiation Therapy, Dosimetry, Treatment Planning, T1/T2-Weighted MR imaging, DCE MR Imaging, CT imaging, CEST Imaging, Photothermal Therapy, Cancer therapy - Breast Tumors, Liver Tumors, Gd(III) Electron paramagnetic resonance, NMR, Electron Microscopy, Nanomaterials, X-ray Structural Analysis, etc.

THERAPEUTIC INSTRUMENTS

Machines: Siemens Artiste, Elekta Infinity, Accuray Radixact

QA Equipment: Sun Nuclear ArcCheck, ScandiDos Delta4 Phantom+ with Hexamotion, CIRS 1D, Motion Platform and 4D Motion Phantom, Exradin A1SL Ion Chamber, Farmers Ion Chamber, Multichannel Electrometer, IC Profiler, Gafchromic and EDR2 Film, Sun Nuclear Daily QA3

TPS: Accuray Precision, Elekta Monaco, MIM

Record and Verify: Elekta Mosaic

Training

Radiation Safety, MR Level II Safety, General Laboratory Safety and Protocols

Computational Resources

MATLAB, Python, MIM, Amira 6.2, VivoQuant, OriginPro, Material Studio, Rietveld, ImageJ, MS Office

CLINICAL EXPERIENCE

Medical Physics Certificate Program | Froedtert & the Medical College of Wisconsin

Patient QA – Froedtert Hospital, Milwaukee WI

May 2021 – June 2022

- IMRT (Siemens Artiste, Elekta Infinity) and Tomotherapy (Accuray Radixact) QA using ArcCheck
- Synchrony QA (Accuray Radixact with Synchrony) for fiducial targets and fiducial-free targets using ArcCheck and Delta4 Phantom+

Monthly QA – Froedtert Hospital, Milwaukee WI

November 2020 – June 2021

- QA duties include mechanical, dosimetry, electron and photon beam characteristics, kV and MV imaging, safety on Elekta Infinity™ linear accelerator

Annual QA – Froedtert Hospital, Milwaukee WI

January 2021 – June 2021

- Participated in annual performance of TG-142 and TG-51 on Elekta Infinity and Siemens Artiste
- Post-service QA including after MLC, Jaw replacement, imaging panel replacement

WORK EXPERIENCE

Medical College of Wisconsin, Radiation Oncology, Milwaukee, WI

Clinical Medical Physics Resident

07/2022- Expected in June 2025

Medical College of Wisconsin, Radiation Oncology, Milwaukee, WI

CAMPEP Medical Physics Researcher

07/2020-06/2022

- Development of novel machine learning techniques fully account for interfractional anatomical changes in MR-Linac image-guided adaptive radiotherapy for the effective tumor targeting during radiation therapy delivery.
- Quick assessment of MR-guided online adaptive radiation therapy workflow on MR-Linac: Adapt to Position-ATP or Adapt to Shape-ATS

Medical College of Wisconsin, Radiology, Milwaukee, WI

Research Scientist

04/2015-06/2020

- Perform 3D image rendering and analysis of different organs in lamb, mice, and rats using micro-computed tomography (micro-CT) imaging and Magnetic Resonance (MR) Imaging after contrast perfusion (microfil, Iodine, and Gadolinium(III) based contrast)
- Design and develop novel nanomaterials and characterize through various analytical methods and establish procedures using Good Laboratory Practice (GLP)
- Conduct effective *In vivo* animal research on Computed Tomography imaging, Dynamic Near-Infrared (NIR) imaging, Short-wave infrared (SWIR) imaging, Magnetic Resonance (MR) Imaging, CEST Imaging, and Cancer Therapy

Utah State University, Biomedical Engineering, Logan, UT

Postdoctoral Researcher

09/2013-03/2015

- Engineering multifunctional magnetic nanostructures for the selective targeting of HER2-expressing breast cancer cells and SERS-fluorescence bimodal nanoprobes for *in vitro* imaging of fatty acid responsive receptor GPR120 and single cell Raman imaging
- Exploring biomechanical properties of human lung adenocarcinoma epithelial cells pre- and post uptake of designed nanocontrast materials
- Standardization Atomic force microscopy and enhanced Raman spectroscopy for nanoscale molecular imaging and developing analytical methods for the detection of heavy metal ions in water in Utah State

Bhabha Atomic Research Centre, BARC, Mumbai | Banaras Hindu University, India

Young Scientist

08/2010-08/2013

- Developed a new method using wet chemistry to make temperature sensing nanomaterials and its characterization.
- X-ray diffraction crystal refinement of nanostructures using different regression models and spectroscopy techniques.
- Communicating with team and other groups to develop and implement safety standards while performing test procedures as well as recommending realistic quality goals and objectives

Dr. H S Gour Central University, India

Research Scholar - PhD

2006 - 2010

- Dissertation: "Performance analysis of modern processors used in computers"
- SPEC Benchmark workload performance analysis on advanced intel and AMD processors
- Finite element method analysis of Cu metal attached to a Si substrate above a height of 1.2 μm using different low-k values and voltages

SELECTED PUBLICATIONS | Citations 2060, H-index 24, i10-index 33

1. Ahunbay E, **Parchur A. K.**, Paulson E, Chen X, Omari E, Li XA. Development and implementation of an automatic air delineation technique for MRI-guided adaptive radiation therapy. *Phys Med Biol.* **2022**;67(14).
2. Ansari, A. A.; **Parchur, A. K.**; Chen, G., Surface modified lanthanide upconversion nanoparticles for drug delivery, cellular uptake mechanism, and current challenges in NIR-driven therapies. *Coordination Chemistry Reviews* **2022**, 457, 214423.
3. Ansari, A. A.; **Parchur, A. K.**; Labis, J. P.; Shar, M. A., Physiochemical characterization of highly biocompatible, and colloidal LaF3:Yb/Er upconversion nanoparticles. *Photochem Photobiol Sci* **2021**, 20(9), 1195.

4. Sharma, M.; Rana, U.; Joshi, C.; Michalkiewicz, T.; Afolayan, A.; **Parchur, A. K.**; Joshi, A.; Teng, R. J.; Konduri, G. G., Decreased Cyclic GMP-protein Kinase G signaling impairs Angiogenesis in a Lamb Model of Persistent Pulmonary Hypertension of Newborn. *Am J Respir Cell Mol Biol* **2021**, 65(5),555.
5. Thorat, N.; Pricl, S.; **Parchur, A. K.**; Somvanshi, S. B.; Li, Q.; Umrao, S.; Townley, H., Safeguarding COVID-19 and cancer management: drug design and therapeutic approach; DOI: 10.12688/openreseurope.13841.1.
6. Ansari, A. A.; **Parchur, A. K.**; Nazeeruddin, M. K.; Tavakoli, M. M., Luminescent lanthanide nanocomposites in thermometry: Chemistry of dopant ions and host matrices. *Coordination Chemistry Reviews* **2021**, 444, 214040.
7. Ansari, A. A.; **Parchur, A. K.**; Thorat, N. D.; Chen, G., New advances in pre-clinical diagnostic imaging perspectives of functionalized upconversion nanoparticle-based nanomedicine. *Coordination Chemistry Reviews* **2021**, 440, 213971.
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9. **Parchur, A. K.**; Fang, Z.; Jagtap, J. M.; Sharma, G.; Hansen, C.; Shafiee, S.; Hu, W.; Miao, Q. R.; Joshi, A., NIR-II window tracking of hyperglycemia induced intracerebral hemorrhage in cerebral cavernous malformation deficient mice. *Biomaterials Science* **2020**, 8 (18), 5133-5144.
10. **Parchur, A. K.**; Sharma, G.; Jagtap, J. M.; Gogineni, V. R.; LaViolette, P. S.; Flister, M. J.; White, S. B.; Joshi, A. Vascular Interventional Radiology-Guided Photothermal Therapy of Colorectal Cancer Liver Metastasis with Theranostic Gold Nanorods. *ACS Nano* **2018**, 12 (7), 6597.
11. Gogineni, V. R.; Maddirela, D.; Ram, W.; Jagtap, J. M.; Sharma, G.; **Parchur, A. K.**; Joshi, A.; Kim D. H.; Larson, A. C.; White, S. B. Localized and triggered release of oxaliplatin for the treatment of colorectal liver metastasis. *Journal of Vascular and Interventional Radiology* **2020**, 11(23), 6982.
12. Sharma, G.; **Parchur, A. K.**; Jagtap, J. M.; Gogineni, V. R.; Bergom, C.; White, S. B.; Flister, M. J.; Joshi, A. Heritable Modifiers of Tumor Micro-environment Heterogeneity Influence Nanoparticle Uptake, Distribution and Response to Photo-thermal Therapy". *Theranostics* **2020**, 10(12):5368-5383.

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14. Zimmerman, K. C.; Sharma, G.; **Parchur, A. K.**; Joshi, A.; Schmidt, T. G. Experimental investigation of neural network estimator and transfer learning techniques for K-edge spectral CT imaging. *Medical Physics* **2020**, 47 (2), 541.
15. Rana, U.; Callan, E.; Entringer, B.; Michalkiewicz, T.; Joshi, A.; **Parchur, A. K.**; Teng, R.-J.; Konduri, G. G. AMP-Kinase Dysfunction Alters Notch Ligands to Impair Angiogenesis in Neonatal Pulmonary Hypertension. *American Journal of Respiratory Cell and Molecular Biology* **2020**, PubMed: 32048878.
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23. Belkhir, N. H.; Toncelli, A.; **Parchur, A. K.**; Alves, E.; Maalej, R. Efficient temperature sensing using photoluminescence of Er/Yb implanted GaN thin films. *Sensors and Actuators B: Chemical* **2017**, 248, 769.

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24. **Parchur, A. K.**; Li, Q.; Zhou, A. Near-infrared photothermal therapy of Prussian-blue-functionalized lanthanide-ion-doped inorganic/plasmonic multifunctional nanostructures for the selective targeting of HER2-expressing breast cancer cells. *Biomaterials Science* **2016**, 4, 1781.
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27. Ansari, A. A.; **Parchur, A. K.**; Kumar, B.; Rai, S. B. Influence of Shell Formation on Morphological Structure, Optical and Emission Intensity on Aqueous Dispersible $\text{NaYF}_4\text{:Ce/Tb}$ Nanoparticles. *J Fluorescence* **2016**, 26 (4), 1151.
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36. Ansari, A. A.; Alam, M.; **Parchur, A. K.** Nd-doped calcium molybdate core and particles: synthesis, optical and photoluminescence studies. *Applied Physics a-Materials Science & Processing* **2014**, 116 (4), 1719.
37. Singh, B. P.; **Parchur, A. K.**; Singh, R. K.; Ansari, A. A.; Singh, P.; Rai, S. B. Structural and up-conversion properties of Er^{3+} and Yb^{3+} co-doped $\text{Y}_2\text{Ti}_2\text{O}_7$ phosphors. *Physical Chemistry Chemical Physics* **2013**, 15 (10), 3480.

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38. Prasad, A. I.; **Parchur, A. K.**; Juluri, R. R.; Jadhav, N.; Pandey, B. N.; Ningthoujam, R. S.; Vatsa, R. K. Bi-functional properties of $\text{Fe}_3\text{O}_4\text{@YPO}_4\text{:Eu}$ hybrid nanoparticles: hyperthermia application. *Dalton Trans* **2013**, 42 (14), 4885.
39. Ansari, A. A.; Hasan, T. N.; Syed, N. A.; Labis, J. P.; **Parchur, A. K.**; Shafi, G.; Alshatwi, A. A. In-vitro cyto-toxicity, geno-toxicity, and bio-imaging evaluation of one-pot synthesized luminescent functionalized mesoporous $\text{SiO}_2\text{@Eu(OH)}(3)$ core-shell microspheres. *Nanomedicine-Nanotechnology Biology and Medicine* **2013**, 9 (8), 1328.
40. **Parchur, A. K.**; Prasad, A. I.; Rai, S. B.; Tewari, R.; Sahu, R. K.; Okram, G. S.; Singh, R. A.; Ningthoujam, R. S. Observation of intermediate bands in Eu^{3+} doped YPO_4 host: Li^+ ion effect and blue to pink light emitter. *AIP Advances* **2012**, 2, 032119.
41. **Parchur, A. K.**; Prasad, A. I.; Rai, S. B.; Ningthoujam, R. S. Improvement of blue, white and NIR emissions in $\text{YPO}_4\text{:Dy}^{3+}$ nanoparticles on co-doping of Li^+ ions. *Dalton Trans* **2012**, 41 (45), 13810.
42. **Parchur, A. K.**; Prasad, A. I.; Ansari, A. A.; Rai, S. B.; Ningthoujam, R. S. Luminescence properties of Tb^{3+} -doped CaMoO_4 nanoparticles: annealing effect, polar medium dispersible, polymer film and core-shell formation. *Dalton Transactions* **2012**, 41 (36), 11032.
43. **Parchur, A. K.**; Ningthoujam, R. S. Behaviour of electric and magnetic dipole transitions of Eu^{3+} , $5\text{D}_0 \rightarrow 7\text{F}_0$ and Eu-O charge transfer band in Li^+ co-doped $\text{YPO}_4\text{:Eu}^{3+}$. *RSC Advances* **2012**, 2 (29), 10859.
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45. **Parchur, A. K.**; Ningthoujam, R. S.; Rai, S. B.; Okram, G. S.; Singh, R. A.; Tyagi, M.; Gadkari, S. C.; Tewari, R.; Vatsa, R. K. Luminescence properties of Eu^{3+} doped CaMoO_4 nanoparticles. *Dalton Trans* **2011**, 40 (29), 7595.
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PUBLICATIONS UNDER PREPARATION

1. **Parchur, A. K.**; Lim, S.; Nasief, H.; Omari, E.; Zhang, Y.; X. Allen Li, Auto-detection of structural similarity index map from daily MRI as an indicator for MR-guided online adaptation replanning, *Medical Physics*, 2021 (**under preparation**).
2. Omari, E.; Nasief, H.; Zhang, Y.; **Parchur, A. K.**; Paulson, E.; Chen, X.; Ahunbay, E.; Hall, W.; Erickson, B.; X. Allen Li, Should Daily Online Adaptive Replanning be Utilized for Every Treatment in MRI-guided Radiotherapy for

Pancreatic Cancer? Annual Meeting Scientific Program Committee of the American Society for Radiation Oncology (ASTRO). (**under preparation**).

3. Nasief, H.; Omari, E.; Zhang, Y.; **Parchur, A. K.**; Paulson, E.; Hall, W.; Erickson, B.; X. Allen Li, Automatically determining necessity of online adaptive replanning based on MRI wavelet multiscale texture features for MRI-guided adaptive radiation therapy. Annual Meeting Scientific Program Committee of the American Society for Radiation Oncology (ASTRO) (**under preparation**).

PROCEEDINGS PUBLICATIONS

1. Gogineni, V. R.; Park, W. R.; Jagtap, J.; **Parchur, A. K.**; Sharma, G.; Joshi, A.; Kim, D.-H.; Larson, A. C.; White, S. B. Localized and triggered release of oxaliplatin for the treatment of colorectal liver metastasis. In *Cancer Res*; Proceedings of the AACR Annual Meeting 2018, **2018**; Vol. 78.
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3. **Parchur, A. K.**; Kaurav, N.; Ansari, A. A.; Prasad, A. I.; Ningthoujam, R. S.; Rai, S. B. CaMoO₄:Tb@Fe₃O₄ hybrid nanoparticles for luminescence and hyperthermia applications. *AIP Conf. Proc.* **2013**, 1512 (1), 184.
4. **Parchur A. K.**, G. S. O., R. A. Singh, R. Tewari, L. Pradhan, R. K. Vatsa, and R. S. Ningthoujam. Effect Of EDTA On Luminescence Property Of Eu³⁺ Doped YPO₄ Nanoparticles. *AIP Conf. Proc.* **2010**, 1313, 391.
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BOOK CHAPTERS

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2. Jagtap, J. M.; Sharma, G.; **Parchur, A. K.**, Functional Nanostructures for drug resistance breast cancer theranostics”, In *Micro and Nano Technologies, 1st Edition*, Elsevier Inc., **2020**, Ch 7, 131-152.
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13. J. M. Jagtap, G. Sharma, **Parchur, A. K.**, B. Fish, M. Medhora, A. Joshi; Assessing radiation induced acute vascular injury in rats with near-infrared dynamic fluorescence imaging; 2018 WMIC, Sep 12-15th, 2018, Seattle, WA. (Poster)
14. **Parchur, A. K.**, J. M. Jagtap, G. Sharma, S. M. Holzhauer, W. Jing, B. D. Johnson, M. Riese, A. Joshi; Tracking T-Cell Based Therapies with Short-Wave-Infrared Emitting Quantum Dots; 2018 WMIC, Sep 12-15th, 2018, Seattle, WA. (Oral)
15. J. M. Jagtap, G. Sharma, **Parchur, A. K.**, V. Gogineni, S. B. White, M. Flister, A. Joshi; Imaging the Effect of Germline Tumor Microenvironment Variation on Triple Negative Breast Cancer, 2017 BMES Annual Meeting, Oct 11-14th, 2017, Phoenix, AZ. (Poster)
16. J. M. Jagtap, G. Sharma, **Parchur, A. K.**, V. Gogineni, S. B. White, C. Bergom, M. Flister, A. Joshi; Imaging lymphatic function in a rat model of hypertension and the impact on breast cancer metastasis, 2017 BMES Annual Meeting, Oct 11-14th, 2017, Phoenix, AZ. (Poster)
17. **Parchur, A. K.**, J. M. Jagtap, V. Gogineni, G. Sharma, S. B. White, M. Flister, A. Joshi; Efficient Hepatic Site-Selective Delivery of Novel Trimodal Optical/MR/X-ray Contrast Nanoconstructs for Colorectal Cancer Liver Metastasis Therapy, 2017 BMES Annual Meeting, Oct 11-14th, 2017, Phoenix, AZ. (Oral)
18. G. Sharma, **Parchur, A. K.**, J. M. Jagtap, B. Fish, B. Carmen, M. M. Medhora, M. Flister, A. Joshi; Enhanced Radiation Response of Head and Neck Tumor Xenografts Using Novel Trimodal Optical/MR/X-ray Contrast Nanoconstructs, 2017 BMES Annual Meeting, Oct 11-14th, 2017, Phoenix, AZ. (Oral)
19. **Parchur, A. K.**, J. M. Jagtap, V. Gogineni, G. Sharma, S. B. White, M. Flister, A. Joshi; Image Guided Site-Selective Delivery of Novel Trimodal Optical/MR/X-ray Contrast Nanoconstructs for Colorectal Cancer Liver Metastasis Therapy, 2017 WMIC, Sep 13-16th, 2017, Philadelphia, PA. (Oral)
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21. **Parchur, A. K.**, J. M. Jagtap, G. Sharma, V. Gogineni, M. Flister, S. B. White, A. Joshi; Site-Selective Delivery of Novel Trimodal Optical/MR/X-ray Contrast Bearing Photothermal Nanoconstructs Increases Uptake in Colorectal Liver Metastasis Tumors, 2017 WCIO; June 8-11th 2017, Boston, MA. (Oral)
22. **Parchur, A. K.**, J. M. Jagtap, V. Gogineni, G. Sharma, S. B. White, M. Flister, A. Joshi; Theranostic Nanoparticles with Native Short Wave IR and MR Contrast for Plasmonic Photothermal Therapy of Breast Cancer in a Rat Model, 2016 WMIC, Sep 7-10th, 2016, New York, NY. (Poster)
23. J. M. Jagtap, **Parchur, A. K.**, V. Gogineni, G. Sharma, A. L. Kaczmarowski, P. S. LaViolette, C. Bergom, S. B. White, M. Flister, A. Joshi; Imaging the Impact of Germline Tumor Micro-environment Variation on Triple Negative Breast Cancer, 2016 WMIC, Sep 7-10th, 2016, New York, NY. (Oral)
24. V. Gogineni, **Parchur, A. K.**, J. M. Jagtap, G. Sharma, M. Flister, S. B. White, M. Flister, A. Joshi; DynaCT and Short wave-IR Optical Image Guided Interventional Photothermal therapy of Colorectal Liver Metastasis, 2016 WMIC, Sep 7-10th, 2016, New York, NY. (Poster)
25. **Parchur, A. K.**, J. M. Jagtap, G. Sharma, V. Gogineni, M. Flister, S. B. White, A. Joshi; A Novel Tri-Modal Gold Nanocomplex for Image-Guided Thermal Ablation of Liver Tumors, 2016 WCIO; June 9-12th 2016, Boston, MA. (Oral)
26. J. M. Jagtap, **Parchur, A. K.**, G. Sharma, V. Gogineni, M. Flister, S. B. White, A. Joshi; Impact of Germline Tumor Microenvironment Variation on Plasmonic Photothermal Ablation of Breast Cancer, 2016 WCIO; June 9-12th 2016, Boston, MA. (Oral)

27. J. M. Jagtap, **Parchur, A. K.**, V. Gogineni, G. Sharma, A. Kaczmarowski, M. Flister, S. B. White, A. Joshi; A Novel Tri-Modal Gold Nanocomplex for Image-Guided Thermal Ablation of Liver Tumors, 2016 Midwest Preclinical Imaging Consortium, May 15–17th, 2016, Madison, WI. (Poster)
28. **Parchur, A. K.**, J. M. Jagtap, G. Sharma, V. Gogineni, M. Flister, S. B. White, A. Joshi; A Novel Tri-Modal Gold Nanocomplex for Image-Guided Thermal Ablation of Liver Tumors, 2016 Midwest Preclinical Imaging Consortium, May 15–17th, 2016, Madison, WI. (Poster)
29. **Parchur, A. K.**, J. M. Jagtap, G. Sharma, V. Gogineni, M. Flister, S. B. White, A. Joshi; Theranostic Nanoparticles for the Noninvasive Diagnosis and Photothermal Therapy of Breast Cancer, 2016 Cancer Center Scientific Retreat, the Medical College of Wisconsin Cancer Center, April 29, 2016, Milwaukee, WI. (Poster)

HONORS AND AWARDS

- Guest Editor, Nanomaterials (ISSN 2079-4991), July 2022.
- AAPM Oral presentation at 2021 AAPM Virtual 63rd Annual Meeting
- ASTRO Oral presentation (co-author) at 2021 ASTRO's 63rd Annual Meeting
- Guest Editor, IEEE Transactions on NanoBioscience, Dec 2017.
- Best Scientific Abstract: Site-Selective Delivery of Novel Trimodal Optical/MR/X-Ray Contrast Bearing Photothermal Nanoconstructs Increases Uptake in Colorectal Liver Metastasis Tumors, World Conference on Interventional Oncology, Boston, 2017.
- Best Scientific Abstract: Impact of Germline Tumor Micro-environment Variation on Plasmonic Photothermal Ablation of Breast Cancer, World Conference on Interventional Oncology, Boston, 2016.
- Travel Grants: Talk Title: Tracking T-Cell Based Therapies with Short-Wave-Infrared Emitting Quantum Dots, World Molecular Imaging Society, 2018
- Travel Grants: Talk Title: Image Guided Site-Selective Delivery of Novel Trimodal Optical/MR/X-ray Contrast Nanoconstructs for Colorectal Cancer Liver Metastasis Therapy, World Molecular Imaging Society, 2017
- Travel Grants: Talk Title: Imaging the Impact of Germline Tumor Micro-environment Variation on Triple Negative Breast Cancer, World Molecular Imaging Society, 2015

PEER REVIEWS | Verified reviews at Publons >250 (<https://publons.com/a/1324077>)

Reviewed manuscripts for: Applied Physics Reviews, Journal of Applied Physics, Applied Physics A, Applied Physics Letters, AIP Advances, Advanced Materials, Physical Chemistry Chemical Physics, Acta Biomaterialia, IEEE Transactions on NanoBioscience, Langmuir, Crystal Growth & Design, Nanoscale, Analyst, Nanomedicine: Nanotechnology, Biology, and Medicine, Dalton Transactions, Journal of Material Chemistry C, RSC Advances, ACS Biomaterials Science & Engineering, etc.

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Junior member of American Association of Physicists in Medicine - AAPM
 Radiological Society of North America - RSNA
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July 2020 – Present
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2016 – 2018

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 2022 - Expected June 2025

CAMPEP Medical Physics Certificate

Medical College of Wisconsin, Milwaukee WI
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Ph.D. in Physics

Dr. H. S. Gour Central University, India
 2006 - 2010

M.Sc. in Physics | Laser Spectroscopy

Dr. H. S. Gour Central University, India
 2003 - 2005

Percentage: 70%

B.Sc. in Physics

Acharya Nagarjuna University, India
 2000 - 2003

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115	Mr.	Vikaram Jawariya	M. Sc. (Physics)	Vikaram jawariya	7909951354
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Autonomous) Science College,
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Department of Biochemistry

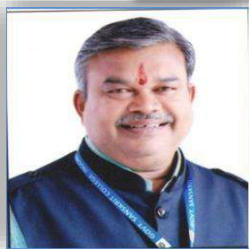


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Education,
Indore Division & Principal



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