

**SOPHIA GIRLS' COLLEGE**  
**(AUTONOMOUS), AJMER**



**DEPARTMENT OF CHEMISTRY**

**2018-19**

## **1. A Seminar on “How to write a Research Paper”**

Department of Chemistry, Home Science and Sociology  
Sophia Girls College (Autonomous), Ajmer  
Are Jointly Organizing  
**A SEMINAR ON**  
**“HOW TO WRITE A RESEARCH PAPER”**

**Dr. Monika Kannan**  
Associate Professor and  
Head Department of Geography  
Sophia Girls' College (Autonomous), Ajmer

1<sup>st</sup> SEPTEMBER 2018  
COLLEGE AUDITORIUM  
1:30 pm

AIMED TO HELP  
THE STUDENTS  
NAVIGATE THE  
RESEARCH  
VOYAGE

LET'S DO IT' .....

**Name of the Activity** – A Seminar on “How to write a Research Paper”

**Date of activity** – 1<sup>st</sup> September, 2018

**Number of Participants** – 79 Students

**Venue-** College Auditorium, Sophia Girls' College (Autonomous), Ajmer

**Resource Person** –

**Name** - Dr. Monika Kannan

**Designation and Affiliation** - Associate Professor and Head, Department of Geography, Sophia Girls' College (Autonomous), Ajmer

**Contact No.** - 9829506865

**Objective of the Activity**

A research paper is an expanded essay that presents our own Interpretation, evaluation or argument. Paper writing involves surveying a field of knowledge in order to find the best possible information in that field. Focus of seminar was on the major components of research paper which included abstract, introduction, objective, data analysis and methodology, results and discussion, conclusion and references. The special emphasis was on abstract writing and reference as it delivers the core of the paper. The session was deeply riveting and intriguing as it was a new introduced concept in the mind of students.

**Learning Outcome** - The seminar was much beneficial for students, those who are willing to opt for Ph.D. degree in future.



## 2. PG Seminar



**Name of the Activity-** PG Seminar

**Date of activity** - 7<sup>th</sup> September, 2018

**Number of Participants** – 18 students

**Venue:** Room No. 40, Sophia Girls' College (Autonomous), Ajmer


### **Objective of the Activity**

Presentation isn't about the presenters; they are about the audience and what the audience needs. Workshops and seminars are the inherent part of our college culture. Repeatedly these seminars are organised for the benefits of the students as presenting a seminar or presentation plays an important role in the personality development of students and also enhances the teaching skills. This is the need of the hours as it is essential for the holistic development of the students. As teaching is the most powerful weapon which can be used to change the world.

**Learning Outcome-**This seminar enhanced the teaching skill of students by making a PowerPoint presentation on various topics from our syllabus.



### 3. National Conference on “Advances in Science and Technology- an Interdisciplinary Approach” (ASTIA-2018)

Registration Form	National Advisory Committee	National Conference on Advances in Science & Technology – an Interdisciplinary Approach (ASTIA – 2018) October 15 <sup>th</sup> & 16 <sup>th</sup> , 2018 Sophia Girls’ College (Autonomous), AJMER		
Name: Dr./Mr./Ms _____	<ul style="list-style-type: none"><li>• Dr. M. Y. S. Prasad, Former Director, Satish Dhawan Space Centre, SRIHARIKOTA; and Vice-Chancellor, Vignan University, Guntur, Andhra Pradesh.</li><li>• Prof. K. J. Rao, Emeritus Professor &amp; Ramanna Fellow, Solid State and Structural Chemistry Unit, I.I.S, Bengaluru.</li><li>• Prof. N. S. Gajbhiye, Emeritus Professor and Former Vice-Chancellor, BHU; Gorakhpur University; Dr. H. S. Gour University, Sagar.</li><li>• Prof. R. S. Mali, Former Vice-Chancellor, North Maharashtra University, Jalgaon.</li><li>• Dr. M. R. R. Prasad, Scientist/Engineer – SF (Retired), ISRO, Dept. of Space, Govt. of India, Secunderabad.</li><li>• Prof. (Dr.) Pawan K. Dhar, Dean, School of Biotechnology, Jawaharlal Nehru University, Delhi.</li><li>• Dr. (Mrs.) Rita S. Majumdar, Professor &amp; Head, Dept. of Biotechnology, School of Engineering &amp; Technology, Sharada University, New Greater Noida.</li><li>• Dr. A. K. Tyagi, Professor, HBNI; Head, Solid State Chemistry Section, Chemistry Division, BARC, Mumbai.</li><li>• Prof. K. Chowdoji Rao, UGC – BSR Faculty Fellow, Dept. of Polymer Science &amp; Technology, Sri Krishnadevaraya University, Anantapur, AP.</li><li>• Dr. B. Sreedhar, Senior Principal Scientist, IICT, Hyderabad, Telangana.</li><li>• Prof. Suresh Mathew, Director, School of Chemical Sciences, Mahatma Gandhi University, Kottayam, Kerala.</li><li>• Dr. P. S. Verma, (Retd. Prof.) University of Rajasthan Jaipur</li><li>• Prof. Arun Arya, Head, Dept. of Environmental Science, MS University, Baroda</li><li>• Dr. I. K. Sharma, (Retd. Prof.) University of Rajasthan Jaipur</li><li>• Prof. Rita Mehra, MDS University, Ajmer</li><li>• Prof. Ashu Rani, Kota University, Kota</li><li>• Dr. M. P. Dobhal, (Retd. Associate prof.), University of Rajasthan, Jaipur</li><li>• Dr. Mahesh . C. Sharma, University of Rajasthan, Jaipur</li><li>• Dr. Sushil Kumar Pandey, University of Jammu, J&amp;K</li><li>• Dr. Umesh Nath Tripathi, University of Gorakhpur, UP</li><li>• Dr. Raghu Chitta, NIT, Warangal (Telangana)</li><li>• Dr. Anuj K. Sharma, Central University of Rajasthan, Ajmer</li><li>• Dr. S. C. Tripathi, GLA University, Mathura</li><li>• Dr. Shiv Lal, Principal, GEC Banswara</li><li>• Dr. Ramesh K. Menaria, Former Dean,GGTU, Banswara</li><li>• Dr. Atul K. Bhatnagar, BBD Govt. College Chimanpura, Jaipur</li><li>• Dr. N. Bhojak, Govt. Dungar College, Bikaner</li><li>• Dr. Alok Chaturvedi, SPC Govt. College, Ajmer</li><li>• Dr. B. K. Sharma, SGG Govt. College, Banswara</li><li>• Dr. Ajay Sharma, Govt. College, Sirohi</li><li>• Dr. Raaz Maheshwari, SBRM Govt. College, Nagaur</li><li>• Dr. Neelima Gupta, Coordinator CAS, UOR, Jaipur</li><li>• Dr. Kumud Tanwar, Dept. of Chemistry, KMM, Jaipur</li><li>• Dr. Upma Singh, Gautam Budha University, Greater Noida, UP</li></ul>	<p><b>National Conference on Advances in Science &amp; Technology – an Interdisciplinary Approach</b></p>  <p><b>(ASTIA – 2018) October 15<sup>th</sup> &amp; 16<sup>th</sup>, 2018 Organized by: Department of Chemistry</b></p>  <p><b>Sophia Girls’ College, Ajmer (Autonomous) SPONSORED BY</b></p>  <p><b>Association of Chemistry Teachers</b></p> <table><tr><td><b>Dr. Taruna Sethi Convener ASTIA-2018 SGC(A), Ajmer (M)9460610654</b></td><td><b>Dr. Ashok K. Kakodia Co- Convener ASTIA-2018 SGGC, Banswara (M)9462877572</b></td></tr></table> <p><b>email: astia2018sophia@gmail.com</b></p>	<b>Dr. Taruna Sethi Convener ASTIA-2018 SGC(A), Ajmer (M)9460610654</b>	<b>Dr. Ashok K. Kakodia Co- Convener ASTIA-2018 SGGC, Banswara (M)9462877572</b>
<b>Dr. Taruna Sethi Convener ASTIA-2018 SGC(A), Ajmer (M)9460610654</b>	<b>Dr. Ashok K. Kakodia Co- Convener ASTIA-2018 SGGC, Banswara (M)9462877572</b>			
Designation: _____				
Organization/Institute _____				
Mobile No.: _____ email id _____				
Whether presenting paper: Yes <input type="checkbox"/> No <input type="checkbox"/>				
Oral / Poster _____				
Title of the paper _____				
Accommodation required : Yes <input type="checkbox"/> No <input type="checkbox"/>				
Registration Fee: Rs. _____				
Payment Mode : <input type="checkbox"/> Internet banking <input type="checkbox"/> DD <input type="checkbox"/> Cash				
DD/UTR Number/ NEFT Bank _____				
DD/NEFT Dated _____				
Date: ____/____/____				
Place : _____ Signature _____				
Payment may be made through NEFT to: A/C Name: Principal Sophia Girls' College, Ajmer Bank Name: Canara Bank Branch Name: Sophia Sr. Sec. School, Ajmer A/C No. 8469101012442 IFSC Code: CNRB0008469				
<b>Address for Correspondence</b>				
<b>Dr. Taruna Sethi Convener (ASTIA-2018) Sophia Girls’ College, (Autonomous), Ajmer. Mobile: 9460610654</b>	<b>Dr. Ashok K. Kakodia Co-convener (ASTIA-2018) SGGC, Banswara Mobile: 9462877572</b>			

### About Sophia Girls' College (Autonomous), Ajmer

Sophia Girls' College (Autonomous), Ajmer functions under the management of the Mission Sisters of Ajmer, a Sisterhood of Indian Women, dedicated to God and this enables them to impart a liberal and enlightened education in the upliftment of humanity.

The Sophia Institution was founded in 1919 as a small Primary School to educate girls from conservative families of the time. Gradually, it grew to a Middle-level and subsequently to a High-school; and in 1942 it was raised to Intermediate-level. Sophia College attained Degree Status in the year 1959 with the aim of imparting higher education to the women community. Today, it has attained an Autonomous Institution status, permanently affiliated to Maharshi Dayanand Saraswati University, Ajmer. The faculties at UG level include – Arts, Science, Commerce, Management (BBA), Computer Applications (BCA), Honors in English and Economics; and at PG level in English, Computer Science, Geography, Political Science, Sociology, Chemistry and Commerce. Skill Enhancement and Career Development Courses and various outreach programs have been introduced by the college in every academic session. The lush green college campus spread over an area of 9.9 acres, has beautiful gardens, sports facilities, hostels, academic and administrative blocks and is located at the strategic entrance to Ajmer on Jaipur Road.

### Theme of the Conference

Given the multiple challenges facing the 21<sup>st</sup> century society, the question of interdisciplinary academic education system is urgent. In order to be in tune with global developments and to develop sustainable and economically viable products and processes towards meeting the aspirations of the present and future generations; following green synthetic methods of interdisciplinary nature is the need of the hour. Conceptual and real time contributions from different interdisciplinary areas of innovative scientific and technological approaches that focus towards providing practical solutions to ensure food, water and energy security have to be implemented. Thus, it is imperative and an urgent need to renew our academic education system towards this approach in case we want to compete and stand out in the global community of nations.

\* The Sub Themes for the Conference are :

- Graphene, Graphene Oxide, and Functionalized Graphenes – New Synthetic Methods and applications.
- Nano Sheets of Boron - New synthetic Methods and applications.
- Carbon Nano-forms–New Synthetic Methods & Applications.

- Semiconductors
- Super capacitors.
- Conducting Polymers.
- Nano - Energy Storage Devices.
- Polymer Batteries.
- Li – ion Batteries.
- Bio-polymers and Advanced Polymers.
- Nano-catalysts.
- Advanced Materials for Space & Atomic Energy applications.
- Characterization Techniques for Nanomaterials – Actual Case Studies
- Photochemistry and Organometallic Chemistry
- Plant and animal science
- Phytochemistry and Biological activity
- Green Chemistry
- Biochemistry
- Chemical Kinetics
- Computational Chemistry
- Electrochemistry, Electrodes and Corrosion
- Heterocyclic, Pharmaceutical and Industrial Chemistry
- Applied Physics
- Environmental Toxicology and Bioremediation
- Mathematical Modeling
- Synthetic Organic Chemistry

### Format of Abstract

- A4-Size paper with Left Margin of 1.5" and all other three sides of 1" margin.
- Paper titles in bold, Times New Roman font, word format, Double line spacing, Font Size – 14.
- Authors, Affiliations, Complete addresses of individual authors along with E-mail Id and mobile phone numbers in Times New Roman Font, Font Size – 11, double line spacing.
- Text – Single column, double line spacing, Times New Roman– Font, Font size – 12
- Abstract should be submitted to [astia2018sophia@gmail.com](mailto:astia2018sophia@gmail.com)

### Last Dates:-

Submission of Registration form along with Fee	:	September 30, 2018
Submission of abstracts	:	September 30, 2018
Date of acceptance	:	September 30, 2018

### Registration Fee

Students/Research Scholars	:	Rs. 750/-
Academicians/Scientists	:	Rs. 1,000/-
Industry Delegates	:	Rs. 5,000/-
Accommodation fee	:	Rs. 1000(Per person)
On the spot registration	:	500/-(Extra in each category)

Registration fee may be remitted by cash at college office, NEFT or DD drawn in favor of the Principal, Sophia Girls' College, Ajmer, payable at Ajmer.

### Note:

- Only those abstracts that accompany the registration form and registration fee will be considered for evaluation and acceptance.
- Kindly bring the receipt of your online payment.
- Registration fee is non refundable.

### Patron

**Dr. Sr. Pearl**  
Principal

### Convener

**Dr. Taruna Sethi**  
Head, Department of Chemistry

### Co-Convener

**Dr. Ashok K. Kakodia**  
Department of Chemistry  
SGG Government College, Banswara

### Coordinator

**Mrs. Deepmala Singhal**

### Organizing Secretary

**Dr.Suneeta Rao**

### Members of Organizing Committee

**Mrs. Mriganka Upadhyay**  
**Dr. Sandhya Yogi**  
**Mrs. Anu Bhardwaj**  
**Sr. Swapna**  
**Ms. Parul Gupta**  
**Ms. Shivani Indora**  
**Ms. Laveena Gulabchandani**  
**Ms. Surmai Sharma**

**Name of the Activity** – National Conference on “Advances in Science and Technology- an Interdisciplinary Approach” (ASTIA-2018)

**Date of activity** – 15<sup>th</sup>-16<sup>th</sup> October, 2018

**Number of Participants** – 443 students

**Venue** – College Auditorium, Sophia Girls' College (Autonomous), Ajmer

**Resource Person -**

S.No	Name	Designation and Affiliation	Contact No.	Contribution in event as
1	Dr. M.R.R. Prasad	Scientist/Engineer SF (Retired), Indian Space Research Organization, Dept. of Space, Govt. of India	9553546600	Keynote Speaker

2	Prof. N.S. Gajbhiye	Former Vice Chancellor, Banaras Hindu University Varanasi	9415134267	Chief Guest of the Inaugural Session
3	Dr. Anil Jain	Principal, J.L.N. Medical College, Ajmer	8005940627	Chief Guest of the Valedictory Session
4	Dr. Ashok K. Sharma	Professor and Chairman, Deenbandhu Chhotu Ram University of Science & Technology, Murthal (Sonapat), Haryana.	9416337633	Invited Speaker and Chair Person
5	Prof. (Mrs.) Rita Singh Majumdar	School of Engineering & Technology, Sharda University, Greater Noida, UP	9971168120	Invited Speaker and Chair Person
6	Dr. Kumud Tanwar	Associate Professor, Kanoria PG Mahila Mahavidyalya, Jaipur (Rajasthan)	8005942288	Invited Speaker
7	Dr. S. C. Tripathi	Research Director, GLA University, Mathura	9969216108	Invited Speaker and Chair Person
8	Dr. Alok Chaturvedi	Associate Professor, SPC Government College, Ajmer	8764001157	Invited Speaker and Chair Person
9	Dr. Mona Kejriwal	Assistant Professor, R.D. & S. H. National College & S.W.A. Science College, Mumbai	9987923125	Invited Speaker
10	Dr. Rakesh K. Sharma	Assistant Professor, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat	9228499273	Invited Speaker and Judge of Poster Presentation Session
11	Dr. Ashok K. Kakodia	Assistant Professor, Department of Chemistry, S. G. G. Govt. College, Banswara	9462877572	Co-Convener
12	Dr. Bharati Prakash	Associate Professor, Department of Zoology S.P.C. Govt. College, Ajmer	9414708788	Co-Chair Person



13	Dr. Reena Vyas	Associate Professor, Department of Zoology, S.P.C. Govt. College, Ajmer	9413948322	Co-Chair Person
14	Dr. Anshu Karel	Associate Professor, Department of Botany, S.P.C. Govt. College, Ajmer	9414433664	Co-Chair Person
15	Dr. Monika Kannan	Associate Professor and Head, Department of Geography, Sophia Girls' College (Autonomous), Ajmer	9829506865	Co-Chair Person
16	Dr. Anuj K. Sharma	Assistant Professor, Central University of Rajasthan, Kishangarh, Ajmer	7340662182	Co-Chair Person

### **Objective of the Activity**

Given the multiple challenges facing the 21<sup>st</sup> century society, the question of interdisciplinary academic education system is urgent. In order to be in tune with global developments and to develop sustainable and economically viable products and processes towards meeting the aspirations of the present and future generations; following green synthetic methods of interdisciplinary nature is the need of the hour. Conceptual and real time contributions from different interdisciplinary areas of innovative scientific and technological approaches that focus towards providing practical solutions to ensure food, water and energy security have to be implemented. Thus, it is imperative and urgent need to renew our academic education system towards this approach in case we want to compete and stand out in the global community of nations. National Conference was focused on interdisciplinary topics of various fields of Science and Technology as Chemistry, Mathematical Computations, Natural Products, Coordination Chemistry, Photochemistry and various relevant topics.

**Learning Outcome-** Through this national conference participant gained the knowledge of new findings and approaches in the field of scientific research, which were explained by the eminent speakers during the conference.



## विज्ञान व तकनीकी उन्नति पर राष्ट्रीय संगोष्ठी

अजमेर | सोफिया गर्ल्स कॉलेज की ओर से 'विज्ञान व तकनीकी उन्नति: एक अंतर अनुशासनात्मक पहुंच' पर दो दिवसीय राष्ट्रीय संगोष्ठी का 15 व 16 अक्टूबर को आयोजित हो रही है। यह संगोष्ठी डॉ. तरुणा सेठी प्रमुख रसायनिक विज्ञान विभाग सोफिया गर्ल्स कॉलेज के तत्वावधान में आयोजित की जा रही है। संगोष्ठी में प्रो. एनएस गर्जभिये पूर्व कुलपति बनारस हिन्दू विश्वविद्यालय, गोरखपुर विश्वविद्यालय, डॉ. एचएस गौर विश्वविद्यालय सागर मुख्य अतिथि एवं डॉ. एमआरआर प्रसाद वैज्ञानिक प्रमुख वक्ता के रूप में मौजूद रहे। उद्घाटन प्रिंसिपल डॉ.



सिस्टर पर्ल ने किया। मुख्य व्याख्यान डॉ. एमआरआर प्रसाद द्वारा वर्तमान वैश्विक प्रवृत्तियों पर दिया गया। संगोष्ठी में राष्ट्रीय एवं अंतरराष्ट्रीय स्तर के 500 व्याख्याताओं, वैज्ञानिकों, शोधार्थियों एवं प्रतिभागियों ने भाग लिया। संगोष्ठी में शोध-पत्र एवं पोस्टर प्रदर्शित किए गए। समापन समारोह 16 अक्टूबर को दोपहर 3.30 बजे होगा। मुख्य अतिथि डॉ. अनिल जैन प्रिंसिपल जेएलएन मेडिकल कॉलेज अजमेर होंगे।



सेमिनार को सम्बोधित करती वक्ता।

### सोफिया में राष्ट्रीय संगोष्ठी शुरू

अजमेर। सोफिया गर्ल्स में सोमवार से दो दिवसीय राष्ट्रीय संगोष्ठी की शुरुआत हो गई। संगोष्ठी का विषय 'विज्ञान व तकनीकी उन्नति: एक अंतर अनुशासनात्मक पहुंच' है। मुख्य अतिथि बनारस हिन्दू विश्वविद्यालय के पूर्व कुलपति प्रो. एनएस गर्जभिये थे। मुख्य वक्ता इसरो के वैज्ञानिक डॉ. एम.आर.आर. प्रसाद थे। विशिष्ट अतिथि सागर विश्वविद्यालय के डॉ. एचएस गौर थे। संगोष्ठी का उद्घाटन प्राचार्य सिस्टर पर्ल ने किया। यह संगोष्ठी रसायन विज्ञान विभाग की एचओडी डॉ. तरुणा सेठी के तत्वावधान में आयोजित की जा रही है। डॉ. एम.आर.आर. प्रसाद ने 'वर्तमान वैश्विक प्रवृत्तियों' पर व्याख्यान दिया। संगोष्ठी में राष्ट्रीय एवं अंतरराष्ट्रीय स्तर के लगभग पांच सौ वैज्ञानिक, व्याख्याता, शोधार्थी और प्रतिभागी शामिल होंगे। इस दौरान शोध पत्र और पोस्टर भी प्रदर्शित किए जाएंगे। संगोष्ठी के समापन पर मंगलवार को मुख्य अतिथि जवाहरलाल नेहरू मेडिकल कॉलेज के प्राचार्य डॉ. अनिल जैन होंगे।

# SOPHIA GIRLS' COLLEGE, AJMER (AUTONOMOUS)

## NATIONAL CONFERENCE

on

### Advances in Science and Technology

### - an Interdisciplinary Approach

15<sup>th</sup> - 16<sup>th</sup> October 2018

Organized by

DEPARTMENT OF CHEMISTRY



This is to certify that .....*Ruchi Mathur*.....  
from .....*Sophia Girls' College, Ajmer*.....  
has Chaired a session /Co-Chaired a session /delivered a lecture /contributed /participated /presented a paper (Oral/Poster)  
titled.....*To analyse Chemical Constituents of wheat with special Reference*  
*to its Nutritional Value*.....at the National Conference.

*Sr Pearl*  
Dr. Sr. Pearl  
Patron & Principal

*Taruna*  
Dr. Taruna Sethi  
Convener

*SB*  
Dr. Ashok. K. Kakodia  
Co - Convener

**4. A Seminar on “Effective tips for Preparation of CSIR –NET”**



**CATALYST THE CHEMISTRY  
FORUM**

**SOPHIA GIRLS' COLLEGE (AUTONOMOUS),  
AJMER**

INVITES YOU TO JOIN SEMINAR ON

**EFFECTIVE TIPS FOR  
PREPARATION OF CSIR NET**

**A Stepping Stone To CSIR NET...**



**Ms. Shivani Indora  
Lecturer, Sophia Girls'  
College (Autonomous),  
Ajmer**

**22 JANUARY, 2019  
ROOM NO. - 40  
TIME - 1:00 pm**

**Name of the Activity** – A Seminar on “Effective tips for Preparation of CSIR –NET”

**Date of activity** – 22<sup>nd</sup> January, 2019

**Number of Participants** – 18 students

**Venue** – Room No. 40, Sophia Girls’ College (Autonomous), Ajmer

**Resource Person** –

**Name** – Ms. Shivani Indora

**Designation and Affiliation** - Lecturer, Sophia Girls’ College (Autonomous) Ajmer

**Contact No.** - 7412835469

**Objective of the Activity** –

“In Today’s World, Students Can Put Dope in Their Veins or Hope in Their Brains. If They Can Create It and Believe It, They Can Achieve It.” Just because something is difficult doesn’t mean you shouldn’t try. It just means you should try a little harder. This interactive session gave brief information about paper pattern, marking scheme and tips about how to crack CSIR-UGC NET EXAM, emphasising mainly on the section A of the paper which deal with general aptitude, Reasoning and Mathematics.

**Learning Outcome-** This seminar helped many students to know about their weakness and strength for the upcoming CSIR-NET exam. This interactive session gave brief information about paper pattern, marking scheme and tips about how to crack CSIR-UGC NET EXAM. With the help of the tips given students are setting themselves to pass the exam with flying colours.

