S.R.R and C.V.R GDC (A), Vijayawada

Department of Chemistry

Two Day National Seminar

On Recent trends in Chemistry and Physics of materials
On 15th & 16th September

Dept. of Chemistry in collaboration with dept. of Physics organized a two-day National Seminar titled '*Recent Trends in Chemistry & Physics of Materials (RTCPM – 2017*)' on 15th and 16th September 2017 sponsored by UGC-SERO, Hyderabad. The programme is conducted under the Chairmanship of **Dr. Velaga Joshi**, Principal, SRR & CVR GDC(A), Vijayawada. **Dr. G. Nagarjuna**, (convenor) Lecturer in Chemistry and Dr. **T.V. Rambabu** (co-convenor), Dept. of Physics coordinated the seminar.

It was sanctioned by the Rc. No. F.No.: SEM-2708/16-17/GEN (UGC-SERO) Link No. 2708, UNIQID: APKR00008443 Dated 7th February, 2017. Amount sanctioned is Rs.1,25,000. Total 324 Faculty member and 550 Students are attended and 142 papers are submitted and 17 posters were presented.

Being an oldest and largest depts, in college, Chemistry & Physics depts. has taken the privilege to conduct this national seminar in order to inculcate the research aptitude. It provided a national flatform, where all the recent methodologies of materials discussed. Undoubtedly this seminar directed all the stakeholders of our college to upgrade their knowledge and created an interest in research.

NATIONAL SEMINAR - Programme details

***** Theme of the programme:

THEME OF THE SEMINAR

The aim of the seminar is to provide vibrant understanding about all aspects of Advanced The aim of the seminar is to prove the seminar is to prove the seminar is to prove the Materials & Materials Science Materials Science Materials & Materials & Materials & Materials approaches, and characterization techniques. It also covers development of new materials and approaches, and characterization techniques. approaches, and characterization to a suits to numerous technological applications that are modification of properties of materials suits to numerous technological applications that are gaining importance. There is lot of scope in preparing new materials by selective methods for various applications including optical, thermal, mechanical and electrical applications. provides a common platform for scientists, academicians and young research scholars working in the fields of basic as well as applied sciences – Physics, Chemistry, Biology, Engineering and Materials Science. It also provides an opportunity to exchange knowledge and ideas with top. level scientists, eminent professors and open new network for future collaboration works. This conference will help the participants to update the knowledge and give an exposure to some of the latest developments in the field of advanced materials. It also provides healthy competition among the researchers to bring out their skills, competences and transform their findings for the promotion of industrial growth. Hoping this conference shall be to strengthen the scientific and technological research, development and commercialization of value added products.

This meeting promises to be a great opportunity to review and expand our knowledge in the important field of advanced materials and will address the need for the exchange of scientific information among experts on various properties viz., spectroscopic, dielectric mechanical, thermal etc.

Objectives of the seminar

- To share valuable research experience of advanced materials.
- To promote collaboration in implementing national standards in research
- To establish network of scholars and scientists of national class
- To expose scholars and science students to have competencies related to their subject and their future professional development

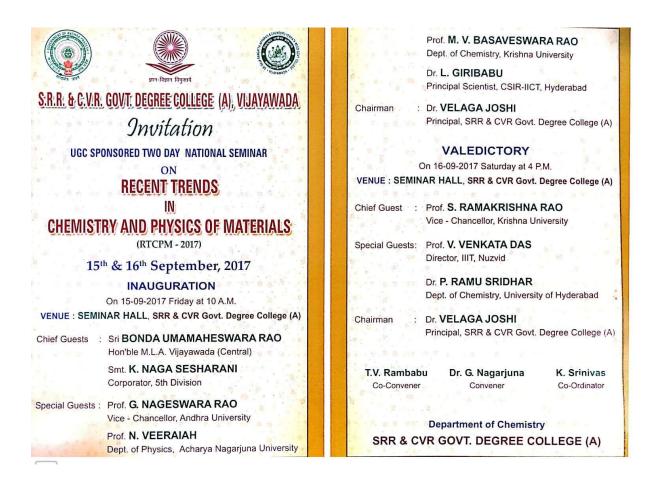
* Scope of the Programme:

Scope of the Seminar

The focus of the seminar will be put on several aspects on the synthesis, characterization and applications of Advanced Materials. Topics include but not strictly limited to

- > Carbon based materials
- Glasses & Glass ceramics
- > Bio-materials
- > Ceramic materials
- > Photovoltaic materials
- > Hybrid materials and Composites
- > Materials for optoelectronics
- > Super conducting materials
- > Solar energy and materials for energy conversion
- > Functional materials
- > Nano-electronics
- > Polymer nano-composites
- > Fuel Cell materials and other electro-ceramics
- Thin Films & Surface Chemistry

❖ Seminar Invitation & Cover



Pin Pin Pin Pin Prom: Convener Convener SRR & CVR Govt . Degree College VIJAYAWADA - 520004	UGC Sponsored Two - Day National Seminar on Recent Trends in Chemistry and Physics of Materials (RTCPM) 15 th & 16 th September - 2017
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❖ Seminar - Brochure

Organizing Committe

Cheif Patrons: Sri G. S. Panda Das, IAS missioner of Collegiate Education, A.P Prof. S. Ramakrishna Rao

Vice- Chancellor, Krishna University, Machilipatnam Patron: Dr K. Gangeswara Rao

R J D of Collegiate Education, Rajamahendravara Chairman: Dr V. Ravi

Prinicpal, SRR & CVR Govt. Degree College, VJA Coordinators:

- ◆ Sri K.Srinivas, HOD Dept. of Chemistr
- ◆ Dr G. Venkata Rao, Coordinator, P.G Studies

Convener: Dr G. Nagariuna, Lecturer in Chemistry Convener: Sri T.V Rambabu, Lecturer in Physic

Organizing Members:

- ◆ Dr V. Neeraja, Lecturer in Chemistry
 ◆ Sri KVS Prasad, Lecturer in Chemistry
- Dr Phani Kumar, Lecturer in Chemistry
- + Sri Ch. Siva Prasad, Lecturer in Cher
- Smt. T. Uma Rani, Lecturer in Chemistry
 Smt. T. Uma Rani, Lecturer in Chemistry
 Dr.K.S Rajesh, HOD, Dept. of Computer Science
 Sri Md. Iqbal Pasha, Lecturer in Physics
 Sri K. Durga Rao, Lecturer in Zoology

- Nouga Nao, Lecture in Zoology
 National Advisory Committee
 Prof. G. Nageswara Rao, Vice Chancellor, AU, VSP
 Prof. N. Veeraiah, Dept. of Physics, ANU, Guntur.
 Prof. M.V. Basaveswara Rao, Dean, KRU, MTM.
 Prof. P.V.V. Satyanarayana, Rtd. Dept of Chem, ANU
 Prof. R. Venkata Nadh, Dept. of Chemistry, Gitam
- Prof. R. Venkata Nadh, Dept. of Chemistry, Gitam School of Tech., Bengaluru.
 Dr. P. Ramu Sridhar Dept. of Chemistry, HCU, Hyd
 Dr. P. Nancharaiah, Scientific Officer G, Water and Steam Chemistry Division, IGCAR, Kalpakkam
 Dr. L. Giribabu, Senior Scientifis, IICT, Hyd
 Dr. M. Subba Rao, HOD, Dept. of Chemistry, ANU
 Dr. D. Ramachandran, Dept. of Chemistry, ANU
 Dr. D. Tribabu, Dept. of Chemistry, ANU
 Dr. N. Venkataramaiah, IISc, Bangalore
 Dr. N. V.S. Venu Gopal, Dept. of Chemistry, Gitam University, VSP.

- University, VSP.
- ◆ Dr. M. Singanan, Dept. of Chemistry, Presidency College (A), Chennai.

Important Dates:

Last date for Abstract Submission: 05-12-2016 Acceptance Notification: 06-12-2016 Last Date for full paper submission:10-12-2010

Registration Fee:

Rs. 500/-Faculty: Research Scholars: Rs. 300/-Rs. 100/-Students

Address for Correspondence

Dr G. Nagarjuna, Convener, RTCPM - 2016 Department of Chemistry,

SRR & CVR Govt. Degree College, Vijayawada-520004. Ph:9440444223, Email: rtcpm2016@gmail.com

Registration Form

Name Designation Address Mobile No

I am enclosing here with D.D NO

for Rs.__(Bank Date:

_____(Station) for registration
DD drawn in favour of the "The Principal, SRR & CVR Govt. Degree College" payable at Vjayawada

Signature of the Candidat

01 Name)

Please send the filled registration form together with DD to The convener RTCPM - 2016. Scanned copy of the signed form and scanned DD may be sent through e-mail.



UGC Sponsored

Two Day National Seminar on

RECENT TRENDS IN

CHEMISTRY & PHYSICS OF MATERIALS (RTCPM-2016)

ON

16th & 17th December, 2016



Organised by

DEPARTMENT OF CHEMISTRY

SRR & CVR GOVT. DEGREE COLLEGE VIJAYAWADA - 520004

(Re - accreditated by NAAC with B Grade - CGPA 2.70) www.srrcvr.org, Ph: 0866-2439229

About the College:
SRR & CVR Government Degree College is the foremost college established in 1937 in Vijayawada. It was originally established by the munificence of Sri Raja Rangayya Appa Rao and Sri Chunduri Venkata Reddy. It is the only Government Degree College serving the socially and economically backward and other weaker sections, near the upcoming capital "Amaravathi" of newly formed Andhra Pradesh state .The Crest and Motto adopted by the college is "VIDYAA DHARMENA SOBHATE"

The college has glorious history of having intellectual stalwarts like first Jnanapita Awardee, Kavisamrat Sri Viswanadha Satyanarayana on the faculty. Among the luminaries, the college mentions with pride the names of Late Sri N.T.Rama Rao, former Chief Minister of Andhra Pradesh, P.S.Rama Mohana Rao Ex- Governer of Tamilnadu and

Sri V. Rama Rao Ex-Governer of Sikkim.

College was accreditated by NAAC twice and is in the process of waiting for autonomy result. The college is the nodal centre for the activites of CCE, A.P

About the Chemistry Department

Chemistry Dept. is one of the n Chemistry Dept. is one of the major departments of the College. It Consists of both UG & PG Courses. It has the privilege of recognized Research Center by Krishna University. 4 members of department faculty have Ph D degrees and 2 members are undergoing FDP. Three members are recognized as Research Supervisor by Krishna Univeristy, JNTU Kakinada, and JNTU

Some of our department faculty members are acting as members of Board of Studies (BOS) of different autonomous colleges. Our department staff member: published 22 papers in National Journals and 26 paper: in International Journals

Two students of the department were M.Phil and four students are working for awarded M.Phil and four students are working for their Ph. D. Vibrant research is going on in the Dept. in the fields of Materials Science and Environmental Chemistry. Two Minor Research Projects sponsored by UGC are going on and One Project was completed.

Scope of the Seminar:

The aim of the seminar is to provide vibrant understanding about all aspects of advanced materials & materials science viz., fundamental concepts, various synthesis preparation approaches, and characterization techniques. It also covers the development of new materials and modification of properties of materials to suit numerous technological applications that are gaining importance. There is lot of scope in preparing new materials by selective methods for various applications including optical, thermal, mechanical and ectrical applications. It provides a common platform for scientists, academicians and young research scholars working in the fields of basic as well as applied sciences - Physics, Chemistry, Biology, Engine and Materials Science

- To share valuable research experience of advanced
- To promote collaboration in implementing national lards in research
- + To establish network of scholars and scientists of
- To expose scholars and science students to have competencies related to their subject and their future rofessional development

The focus of the seminar will be put on several aspects on the synthesis, characterization and applications on the synthesis, characterization and applications of the synthesis and the synthesis esis characterization

- Hybrid materials and Compos Materials for optoelectronics Photovoltaic materials
- Photovoltaic materials
 Super conducting materials
 Solar energy and materials for energy
 conversion
 Carbon based materials
 Glasses & Glass ceramics

- Fuel Cell materials and other electro-ceramic **Bio-materials**
- Thin Films & surface chemistry
 Organic & Inorganic nano materials for
 functional applications

We Invite

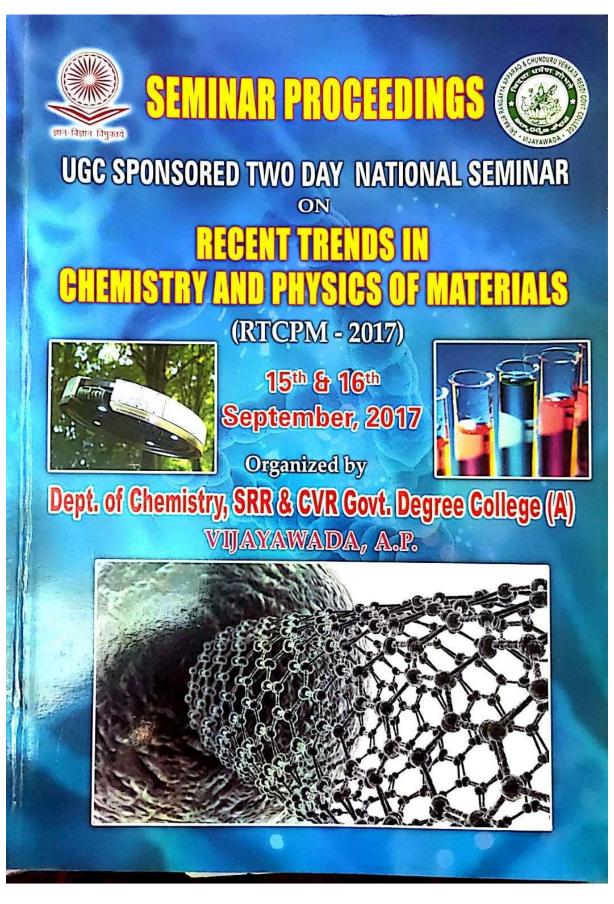
- # Faculty from Academic Institution
- # Research Scholars from various Universities
- # Young Students of M.Sc. Chemistry, Physics
- # People from Industry and R&D Institutions

Call for papers:

The participants are invited to contribute ab The participants are invited to contribute abstracts of the papers for oral presentation. Abstracts are in MS Word, Times new Roman font style 12 font size with 1.5 spacing not exceeding 300 words. The Title of the abstract should be in Bold (14 font size) followed by the names of the authors and affiliations in italies. Abstracts can be submitted through e-mail to rtepm2016@email.com.

All the contributed papers would be peer reviewed and as per the recommendation of the reviewers, the papers will be consider for publication in a reputed journal with ISSN No.

Souvenir:



Programme Schedule:

UGC Sponsored Two Day National Seminar RTCPM - 2017

Program Schedule Day 1: 15.09.2017 (Friday)

00.00 00.20 434	Registration
09.00 - 09.30 AM	Inaugural session
09.30 – 10.00 AM	Tea Brake
10.00 – 10.10 AM	SESSION - 1 (Chair: Dr. Y.V. Nancharaiah)
TECHNICAL	Distinguished Speaker:
•	Prof. G. Nageswara Rao,
10.10 – 10.40 AM	Vice-Chancellor,
10.10 - 10.40 AM	Andhra University, Visakhapatnam.
	Keynote Address:
	Prof. N. Veeraiah
10.40 – 11.20 PM	Dept. of Physics,
10.10 11.20 11.1	Acharya Nagarjuna University, Guntur.
	Dr. L. Giribabu
11.20 – 12.00 PM	Principal Scientist,
11.20 12.001	Inorganic and Physical Chem. Division
	CSIR-Indian Institute of Chemical Tech., Hyd.
	Obite indian indiana of order
12.00 – 12.40 PM	Dr. K. Ramachandra Rao
Do Invited	Dept. of Physics,
	Govt. Arts College (A), Rajahmundry.
12.40 - 01.00 PM	Oral Presentations
01.00 - 02.00 PM	Lunch brake
TECHNICA	AL SESSION - 2' (Chair : Prof. N. Veeraiah)
	Dr. Y. V. Nancharaiah
02.00 - 02.40 PM	Scientist-G, Water & Steam Chem. Div.,
	BARC-IGCAR, Kalpakkam, T.N.
02.40 - 30.20 PM	Dr. N.V.S. Venugopal
	Assoc. Prof., Dept. of Chemistry, G.I.T.
	GITAM University, Visakhapatnam.
03.20 - 04.00 PM	Dr. M.C. Rao
	Associate Professor, Dept. of Physics,
	Andhra Loyola College, Vijayawada.
04.00 - 04.10 PM	Tea break
TECHNIC	CAL SESSION - 3 (Chair : Dr. M.C. Rao)
04.10 - 04.40 PM	Dr. G. Sivaramaiah
	Assoc. Prof., Dept. of Physics,
	G D C, Yerraguntla, Kadapa Dist.
04.40-05.00 PM	Oral Presentations
05.00 - 05.30 PM	Poster Presentations

Day2:16.09.2017 (Friday)

TECHNICAL SESSION	ON - 4 (Chair: Dr. N. Venkataramaiah)
	Dr. P. Ramu Sridhar
09.00 – 09.40 AM	Assoc. Prof., School of Chemistry,
	University of Hyderabad, Hyderabad
	Prof. R. Venkatanadh
09.40 – 10.20 AM	Research Director, Dept. of Chemistry,
	GITAM University, Bengaluru
10.20 - 11.00 AM	Dr. B. Jaganmohan Reddy
	Dept. of Chemistry
	Acharya Nannayya Univ, Rajahmundry.
11.00 – 11.10 AM	Tea brake
TECHNICAL SESSI	ON - 5 (Chair: Prof. R. Venkatanadh)
TECHNICIE	Dr. RVSSN Ravi Kumar
11.40 – 11.40 PM	Dept. of Physics,
	Achaarya Nagarjuna Univ., Guntur.
11.40 – 12.20 PM	Dr. N. Venkataramaiah
	Asst. Prof. (Research),
	Dept. of Chem & Research Institute
	SRM University, Chennai.
12.20 - 01.00 PM	Dr. V.H. Rao
	Associate Professor, Dept. of Chemistry
	Andhra Loyola College, Vijayawada.
21 22 02 DM	Lunch Break
01.00 - 02.00 PM	ION - 6 (Chair: Dr. P. Ramu Sridhar)
TECHNICAL SESS.	VI. VIII 2001
02.00 02.40 PM	DC and Research Dept. of Chemistry,
	Presidency College (A), Chennai.
12 12 00 PM	Oral Presentation
02.40 - 03.00 PM	Tea brake
03.00 - 03.10 PM	ON -7 (Chair: Dr. N.V.S. Venu Gopal)
TECHNICAL SESSI	Oral Presentations
03.30 - 04.00 PM	Oral Presentations
04.00 - 04.30 PM	Valedictory
04.30 - 05.00 PM	Chief Guest: Prof. V. Venkata Dasu,
	Director, IIIT-RGUKT, Nuzvid
	Director, III I-ROOM,

❖ Invited Talks, Oral presentations & Poster presentations

15th September:

- Chief Guest of our programme, Prof. G. Nageswara Rao, Vice-Chancellor of Andhra University, Visakhapatnam was attended to the opening ceremony and delivered Key note address.
- Honorary guest Prof. N. Veeraiah, Dept. of Physics, Coordinator, Research Cell,
 Acharya Nagarjuna University addressed the gathering.
- Prof. P. Ramu Sridhar, Associate Prof., School of Chemistry, University of Hyderabad and Dr. G. Giri Babu, Senior Scientist, IICT, Hyderabad delivered guest lectures.

16th September:

- Faculty and Scholars from various degree colleges and universities participated in oral presentations and delivered research talks.
- Prof. V. Venkata Dasu, Director, IIIT-Nuzvid, Krishna Dist., and Prof. M.
 Basaveswara Rao, Dept. of Chemistry and Dean, BoS, Krishna University attended and delivered the talk in valedictory function.
- This National seminar benifited various stakeholders and hereby we are mentioning some of outcomes of our programme:

Outcomes of the seminar: for various stakeholders

- ➤ **College:** National seminar provided a good platform to the College to build a good network with professionals from Industry and Research centers and various academicians from various Universities and Colleges.
- Faculty: The faculty members learned various methodologies for research activity and they were motivated for publication of good research work.
- > **Students:** The students were most benefited from this seminar. They were more enlightened about all aspects of advanced materials and materials Science viz., fundamental concepts, various synthesis preparation approaches, and characterization techniques.
- ➤ Industry/Society: The seminar addressed recent advancements and new strategies for development of new materials for global requirements with

an objective to install a dialogue between industries and academic organizations and knowledge transfer from research to industry.

Acknowledgments:

♣ We would like to thank Dr. Velaga Joshi, Principal, SRR and CVR GDC, Vijayawada, a dynamic leader who encouraged and supported us in all aspects ranging from release of amount to technical support.

We extend our heartful thanks to Dr, Ramesh, Lecturer in Computer Science, for extending his technical support.

♣ Our special Thanks to all are colleague friends particularly in the depts. and in college, without their support, this could not be possible.

♣ Special and heartful thanks to all the Non-teaching and my dear students who has taken part for making this seminar a grand success.

> Dr. G. Nagarjuna, Dept. of Chemistry Sri. T.V. Rambabu, Dept. of Physics

Photo Gallery



Opening ceremony - 15th-16th September, 2017



Lightning of the lamp



Opening of Souvenir



Welcoming address by Dr. G. Nagarjuna

Other photos



conclusion: Feed back form has been collected and consolidated for futuristic benefit.

(News paper Clippings)