



SRI VIDYA MANDIR ARTS & SCIENCE COLLEGE

(Autonomous)

**(Accredited by NAAC with 'A' Grade [3.27])
(Recognised 2(f) & 12(B) under UGC Act of 1956)
Katteri, Uthangarai, Krishnagiri (Dt),
Tamil Nadu, India, 636902.**



A TWO DAY INTERNATIONAL CONFERENCE ON POLYMER SCIENCE AND TECHNOLOGY (ICPST-2021)

**(ICPST– 2021)
9TH & 10TH MARCH 2021**

**Organized
by**

**Department of Chemistry, Sri VidyaMandir Arts &
Science College, Tamilnadu, India.**

About the college

The Visionary Philanthropists of Sri VidyaMandir Higher Educational Trust started Sri VidyaMandir Arts & Science College in Uthangarai in 2000 with the noble aim of uplifting the economically and educationally backward districts-Dharmapuri and Krishnagiri into the number one educational destination in Tamil Nadu. The College is surrounded by the culturally rich pilgrimage centres, Hanumantheertham (2 km) and Theerthamalai (15 km), associated with the famous Epic, The Ramayana. The college is housed in a sprawling campus of more than 50 acres. The Queen of Mountains the Eastern Ghats has bestowed her bountiful nature and conducive climate round the year. The college is well-connected with the nearby cities and is located in the Salem – Vellore State Highways. Currently the college has the strength of more than 4300 students and 135 faculty Members. In 2013 our college is recognized 2(f) & 12(B) status by the UGC and as another feather to its crown, for the exceptional progress; in 2015 the college has been accredited by NAAC with 'A' Grade with CGPA 3.27 out of 4.

About our Department

The Department of chemistry was established in the year 2004 with undergraduate B.Sc. degree in chemistry with 12 students. The M.Sc. degree is being offered from the year 2013. From the year 2015 onwards, the department has emerged as a full-fledged research department offering M.Phil. Programmes. Since 2004 the department has produced more than 500 centurms. Now in 2020, the department holds nearly 420 students with 15 faculties. It provides a teaching learning process to develop the talent through competency building. The department has 2 Ph.D. holders. It's a matter of pride that the department has achieved many successes in the path of education for the welfare of the students. The department students have clinched university ranks (55) including five gold medals. Apart from the academic achievements the department is also taking sincere efforts to develop the multi-disciplinary knowledge of the students by conducting national/international level Conferences, Seminars, Workshops and Cultural programmes yearly with the help of the management. It strives to produce eminent professionals turned to the real time working environment. The department runs to meet out the competent academic environment with adequate labs and library resources to support students in their pursuit of excellence in every sector of life.

About the conference

The International Conference Polymer science and technology (ICPST-2021) will be held in Sri VidyaMandirArts and Science College, Katteri, Tamil Nadu, India during March 09-10, 2021. The conference looks for significant contributions to all major fields of Polymer science, electro chemical applications in various fields of chemical sciences. It is a prestigious event organized with a motivation to provide an excellent international platform for the leading academicians, research scholars, industrial participants and budding students around the world to share their research findings with the global experts. We hope that ICPST-2021 outcome will lead to significant contributions to the knowledge base in these up-to-date scientific fields in scope.

Organizing committee

Chief Patron

Shri.V. CHANDRASEKARAN,

Founder, Sri Vidya Mandir Group of Educational Institutions, Uthangarai.

Patron

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Secretary, Sri Vidya Mandir Arts & Science College, Uthangarai

Thiru. K. VENKATACHALAM

Additional Secretary, Sri VidyaMandir Arts & Science College, Uthangarai.

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Principal, Sri Vidya Mandir Arts & Science College, Uthangarai.

Dr. N.GUNASEKARAN, M.A., M. Phil., Ph.D.

Vice Principal, Sri Vidya Mandir Arts & Science College, Uthangarai.

Conveners

Dr. C.Govindaraj, M.Sc., M.Phil., Ph.D.

Assistant Professor, Department of Chemistry, Sri Vidya Mandir Arts & Science College, Uthangarai.

Dr. R.Dayanandhan, M.Sc., M.Phil., Ph.D.

Assistant Professor, Department of Chemistry, Sri Vidya Mandir Arts & Science College, Uthangarai.

Coordinator

Mr. V.Karthikeyan, M.Sc., M.Phil., Ph.D.

Assistant Professor & Head, Department of Chemistry, Sri Vidya Mandir Arts & Science College, Uthangarai.

Organizing Secretaries

Mr. N. Chandrasekaran, M.Sc., M.Phil., (Ph.D).

Assistant Professor, Department of Chemistry, Sri Vidya Mandir Arts & Science College, Uthangarai.

Mr. C.Thirumurugan, M.Sc., M.Phil., (Ph.D).

Assistant Professor, Department of Chemistry, Sri Vidya Mandir Arts & Science College, Uthangarai

Organizing Committee members

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Mr. R. Thambidurai, M.Sc., M.Phil., (Ph.D).

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Advisory Committee

Dr.MangalaSunderKrishnan, IIT Madras, Chennai.
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 Dr. E. Subramaniyan, M S University, Tirunelveli.
 Dr. N. Rajandiran, Anna University, Chennai.
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 Dr.Hammet Mittal, KhalifaUniversity of science and Technology, Abu Dhabi (UAE)
 Dr. TAMILARASAN, State key laboratories of Coal Conversion, China
 Dr. Mani Govindasamy, Research Assistant Professor, Taiwan (ROC)
 Dr. Sathiyam, Post-Doctoral Researcher, Jiangsu University, China.
 Dr. Raja Nehru, National Kaohsiung University of Science and Technology, Taiwan.
 Dr. S.Syed Safi, ThiruvalluvarUniversity, Vellore.
 Dr. K.Subramani, IslamiahCollege,Vaniyambadi.
 Dr.K.Shiva kumar,GITAM,University, Hyderabad.
 Dr. C.Kannan, M S University, Tirunelveli.
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 Dr.C.Kavitha, Adhiyaman Arts and Science College, Uthangarai.
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 Dr.D.Madheswari, Govt Arts college for women, salem 8.
 Dr.M.Ganapathy, Govt Arts college, thiruvannamalai.
 Dr.R.Balaji, Govt Arts college, Krishnagiri.

Focused Areas

-Polymer nano composites
 -Applications of organic polymer
 -High performance polymers
 -Organic materials
 - Advanced nano materials

-Biopolymers
 - Bio sensors
 -Bio nano composites

No Registration fees & E-Certificate will be provided to the active participants

Registration is free link here:<https://forms.gle/aM2DLLD6CTnkuhs7>

The Organizing committee invites original research papers for oral and poster presentation. Authors are requested to send the abstract not exceeding 300 words in the prescribed font (Times New Roman, Font - 12 points and 1.5 lines spacing) to the mail svm_chemistry_pg@gmail.com
 Last Date for Abstract submission: 25.02.2021
 Last Date for full Length Paper Submission: 05.03.2021

Programme Schedule

DAY- I (09.03.2021)

Time	Session
9.30 am	Inaugural function
10.15 to 11.00 am	Dr. V. Raj, M.Sc., Ph.D. Professor and Head, Department of Chemistry, Periyar University, Salem, Tamil Nadu, India. Topic:Bio nano composites
11.10 to 11.55 am	Dr. S. Guhanathan, M.Sc., Ph.D. Professor of Chemistry, Muthurangam Govt Arts college, Vellore, Topic:High performance polymers and its applications
12.00 to 12.45 pm	Dr. MayavanViji, M.Sc., Ph.D. Research Professor, College of Pharmacy, Chungbuk National University, Cheongju, South Korea. Topic:Transition metal-free synthesis of heterocyclic compounds
2.00 to 2.45 pm	Dr. Susovan, M.Sc., Ph.D. Associate professor, Department of Chemistry, Bankura Sammilani College, West Bengal, India. Topic:Interpreting Chemistry with Porphyrin and Corrole Dimers
3.00 to 3.45 pm	Dr M S SurendraBabu, M.Sc., Ph.D. Associate Professor, Department of Chemistry, School of science, GITAM Deemed to be University, Hyderabad, Telangana. Topic:Hybridization of MOFs and polymer Enhanced applications
4.00 to 4.45 pm	Dr. R.Dayanandhan, M.Sc., M.Phil., Ph.D. Assistant professor, Department of Chemistry, Sri Vidya Mandir Arts and Science College, Uthangarai, Tamilnadu, India. Topic:Determination of activation parameters, kinetics and mechanism of free radical polymerization

DAY- II (10.03.2021)

10.00 to 10.45 am	Dr. K Shiva Kumar, M.Sc., Ph.D. Associate professor, Department of Chemistry, School of science, GITAM Deemed to be University, Hyderabad, Telangana. Topic: Development of new synthesis in organic synthesis
11.00 to 11.45 am	Dr. S. Sudarsan, M.Sc., M.Phil., Ph.D. Associate Professor, Department of Chemistry, C. Abdul Hakeem College of Engineering and Technology, Melvisharam-632509, Ranipet District, Tamil Nadu, India. Topic: Smart hydrogels as multifunctional biomimetic system
12.00 to 12.45 pm	Dr. Mani Govindasamy, M.Sc., Ph.D. Research Assistant Professor, Department of Material and Mineral Resource Engineering, National Taipei University of Technology (TAIPEI TECH), Taiwan (ROC). Topic:Health Care Devices based Electrochemical (Bio)Sensors Using Polymers and 2D Layered Nanocomposites
1.45 to 2.30 pm	Dr. G.Sathiyam, M.Sc., Ph.D. Post-Doctoral Researcher, Institute of Energy Research, Jiangsu University, China. Topic:Organic material in perovskite solar cell
2.45 to 3.30 pm	Dr. Raja Nehru, M.Sc., Ph.D. Assistant Researcher Fellow, Sustainable Environmental Research Center, National Kaohsiung University of Science and Technology, Kaohsiung City, Taiwan. Topic:Advanced nano-materials toward a sustainable and environmental application aspects
3.45 to 4.30 pm	Dr. C.Kavitha, M.Sc., M.Ed., Ph.D. Assistant Professor, Department of Chemistry, Adhiyaman Arts and Science College for Women, Uthangarai, Tamilnadu, India. Topic:Polymer application in coating and food packaging
4.30 pm	Valedictory

Invited speakers



Dr. V. Raj
Professor and Head,
Department of Chemistry,
Periyar University,
Salem, Tamilnadu, India

Topic: Bio nano composites



Dr. Susovan
Associate professor,
Department of chemistry,
Bankura Sammilani College,
West Bengal, India

Topic: Intreguing Chemistry with Porphyrin and Corrole Dimers



Dr. S. Guhanathan
Professor of Chemistry,
Muthurangam Govt. Arts College,
Vellore,
Tamilnadu, India.

Topic: High performance polymers and its applications



Dr. S. Sudarsan
Associate Professor,
Department of Chemistry,
C. Abdul Hakeem College of Engineering
Technology, Melvisharam, Ranipet District,
Tamil Nadu, India.

Topic: Smart hydrogels as multifunctional biomimetic system



Dr. G. Sathiyam,
Post-Doctoral Researcher,
Institute of Energy Research,
Jiangsu University, China.

Topic: Organic material inperovskite solar cell



Dr. C. Kavitha
Assistant Professor,
Department of Chemistry,
Adhiyaman Arts and Science College for
Women, Uthangarai, Tamilnadu, india.

Topic: Polymer application in coating and food packaging



Dr M S Surendra Babu
Associate Professor
Department of Chemistry,
School of science,
GITAM Deemed to be University,
Hyderabad, Telangana, India.

Topic: Hybridization of MOFs and polymer Enhanced applications



Dr. R. Dayanandhan
Assistant Professor,
Department of Chemistry,
Sri VidyaMandir arts and Science College,
Uthangarai, Tamil Nadu, India.

Topic: Determination of activation parameters, kinetics and mechanism of free radical polymerization



Dr. Mayavan Viji
Research Professor,
College of Pharmacy,
Chungbuk,
National University,
Cheongju, South Korea.

Topic: Transition metal-free synthesis of heterocyclic compounds



Dr. Mani Govindasamy
Research Assistant Professor,
Department of Material and Mineral
Resource Engineering,
National Taipei University of
Technology (TAIPEI TECH),
Taiwan (ROC).

Topic: Health Care Devices based Electrochemical (Bio)Sensors Using Polymers and 2D Layered Nano composites



Dr. K. Shivakumar
Associate Professor,
Department of chemistry,
School of science.
GITAM Deemed to be University,
Hyderabad, Telangana, India.

Topic: Development of new synthesis in organic synthesis



Dr. Raja Nehru
Assistant Researcher Fellow,
Sustainable Environmental
Research Center,
National Kaohsiung University of
Science and Technology,
Kaohsiung City, Taiwan.

Topic: Advanced nano-materials toward a sustainable and environmental application aspects

A TWO DAY INTERNATIONAL CONFERENCE ON
POLYMER SCIENCE AND TECHNOLOGY
(ICPST-2021)

Conference Report

A very good afternoon to everyone gathered here. The invited speakers cover the latest technologies & advances in the field of Polymers Science. The conference had motivated the students by giving innovative ideas from all the research scholars, faculty and industry professionals in the fields as per conference themes mentioned in this brochure.

In the first day 09.03.2021 the opening session was addressed by Dr. V. Raj, Speaker of Periyar University Salem who declared the applications of bio nano composite material in Agricultures. In the second speaker Dr. S. Guhanathan has delivered how to use high performance liquid chromatography in the field of current polymer science research and its applications. The third speaker Dr. Mayavan Viji has delivered about the catalytic role of transition metals in heterocyclic compound synthesis. In the afternoon session-II was started by speaker Dr. Susovan who delivered about the polymerisation of macrocyclic ligands like porphyrin ring, corrin ring and their applications in biological systems. Dr. M. S. SurendraBabu gave a brief overview of the molecular orbital energy of various polymer compounds and discussed their various applications in current research. Dr. R. Dayanandhan, has delivered how to determination of activation parameters, kinetics and mechanism of free radical polymerization.

The second day 10.03.2021 the session-III was started by Dr. K. Shiva Kumar, he delivered the novel methods which are used in organic synthesis and also in green pathway. Dr. S.Sudarsan has delivered the polymer composite hydrogel and its applications. Dr. Mani Govindasamy, addressed the importance of biosensor and how to use biosensor in medical field and its advantages in 2D Layered Nanocomposites. Afternoon session-IV was started by Dr. G. Sathiyam, he delivered about the organic materials used in the perovskite solar cells and its applications. Dr. Raja Nehru, facilitated the discussion on how to use eco-friendly environment in Nano-composite materials to reduce the environmental pollutions. Dr. C. Kavitha, gave a brief presentation on applications of polymer compounds in food industry and coating of pigments in paint industries.