

THE AGENDA



Newsletter.....

FROM THE DEPARTMENTS OF SCIENCE AND HUMANITIES

(APPLIED CHEMISTRY, APPLIED MATHEMATICS, APPLIED PHYSICS & HUMANITIES AND SOCIAL SCIENCES)

SRI VENKATESWARA COLLEGE OF ENGINEERING
SRIPERUMBUDUR - 602117 TAMILNADU, INDIA

INTERNATIONAL WOMEN'S MONTH
SCIENCE DE 'MAU FRIANCS



Contents

APPLIED CHEMISTRY - 1

APPLIED MATHEMATICS - 6

APPLIED PHYSICS - 10

HUMANITIES AND SOCIAL SCIENCES - 13

VOLUME 02; ISSUE 1 JANUARY 2024 MONTHLY UPDATED

H2NEXT LAB-KARAIKUDI AND SVCE COLLABORATE ON INDUSTRY-INSTITUTE INTERACTION

January 24, 2024, Karaikudi, representatives from Sri Venkateswara College of Engineering and H2next Lab-Karaikudi

Dr. S. Ilaiyavel Manager-Incubation,

Dr. S. Stanly, Professor and Head;

Dr. N. Nachiappan;

Dr. S. Ananda Babu; and

Mr. S. Subramanian, Co founder, H2next met on January 24th to discuss and finalise possible industry-institute engagement initiatives. A successful collaboration with various important initiatives was the outcome of the meeting. H2next employees will have access to a four-month initial programme on electrolyzer and fuel cell technology through SVCE's Applied Chemistry department. While SVCE will support the development of AEM electrolyzers and membranes, H2next will maintain the system and provide servicing for the current equipment. This will be training and internships available.



COMPLETED A INNOVATION AMBASSADOR TRAINING

APPLIED CHEMISTRY

Dr. S. Stanly, Professor and Head, Department of Applied Chemistry has undergone webinar Innovation Ambassador (IA) training on 'Foundation Level' (Total 15 sessions and 30 contact hours) conducted by MoE's innovation Cell & AICTE during the IIC calendar year 2022-23



WORKSHOPS PARTICIPATED

Dr. G. Devasagayam, Professor, Department of Applied Chemistry has participated in the Workshop on Emerging Data Engineering Technologies organized by the Department of CSE, SVCE from 29-01-2024 to 31-01-2024.

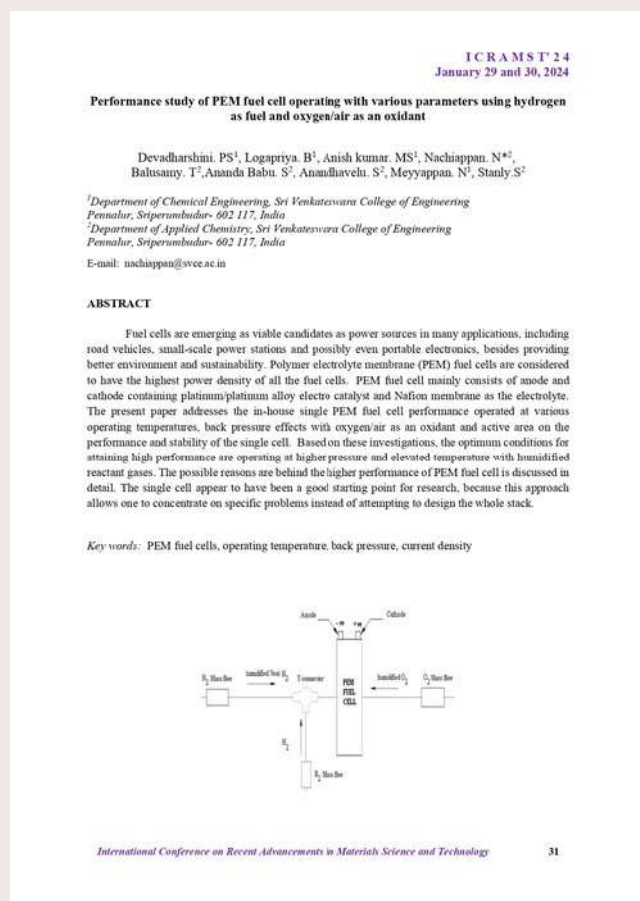
GUIDES DOCTORAL STUDENT

Congratulations to Dr. S. Anandhavelu, Assistant Professor, on guiding Mr. S. Arumugam through his first doctoral committee meeting on January 12, 2024. The meeting, held online, marks an important in Mr. Arumugam's academic journey.

STUDENTS MENTORING

P. S. Devadharshini, B. Logapriya, and M. S. Anish Kumar, III-Year Chemical Engineering has presented a paper on 'Performance Study of PEM Fuel Cell Operating with various parameters using hydrogen as fuel and oxygen or air as an oxidant' and published in CONFERENCE PROCEEDINGS (ISBN: 978-93-95898-91-1) of First International Conference on Recent Advancements in Materials Science and Technology (ICRAMST' 24), organised by Karpagam Academy of Higher Education, Eachanari, Coimbatore, Tamil Nadu, India, during January 29 and 30, 2024.

This project has received cooperative mentoring from Dr. N. Nachiappan, AP/ACH, Dr. T. Balusamy, AP/ACH, S. Ananda Babu, AP/ACH, S. Anandhavelu, AP/ACH, Dr. S. Stanly, Prof. & Head/ACH, and Dr. N. Meyyappan, Prof. & Head/CHE.



STUDENTS MENTORING

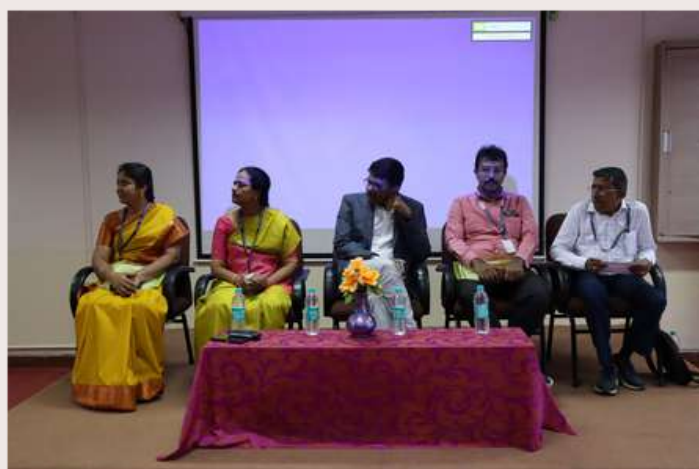
Mr. M. Mahadevan and Mr. SH Mohanramm (Alumni), Department of Chemical and Petroleum Engineering, University of Calgary, Canada, has presented a paper on 'Development of polyvinyl alcohol/zinc oxide composite coating on mild steel by dip coating method and evaluation of their corrosion behaviour in 3.5% NaCl' and published in CONFERENCE PROCEEDINGS (ISBN: 978-93-95898-91-1) of First International Conference on Recent Advancements in Materials Science and Technology (ICRAMST' 24), organised by Karpagam Academy of Higher Education, Eachanari, Coimbatore, Tamil Nadu, India, during the 29 and 30 January 2024.

This project has been jointly mentored by Dr. T. Balusamy, AP/ACH, Dr. N. Nachiappan, AP/ACH, Dr. S. Stanly, Prof. & Head/ACH, and Ms. A. C. Vijayalakshmi, AP/CHE.



The Department of Applied Chemistry associated with the Department of Information Technology and organised a technical talk on "Artificial Intelligence: Opportunities in Healthcare". The talk is given by Dr. Ilankumaran Kaliamoorthy Chief Executive Officer & Senior Consultant Liver Anesthesia & Intensive Care Reliance Hospital, Chennai.

The guest lecture was attended by the 5th semester B.Tech (IT) students and faculty members of Applied Chemistry and Information Technology. Dr S Stanly HOD-ACH and Dr V Vidhya HOD-INT welcomed the guest. The event coordinators were Dr G Baskar ASP ACH, Dr N Devi ASP/INT, Dr D Jayanthi ASP/INT, Dr.V.M.Sivagami, Prof/INT and Mr.A.Thiyagarajan, AP/INT.



Dr.R.Muthucumaraswamy, Professor & Head, published a paper entitled, "Heat and Mass Transfer Effects on Rotating Fluid over Exponentially Accelerated Inclined Plate in the Presence of Hall Current with Uniform Temperature" in the Indian Journal of Natural Sciences , Vol.14 / Issue 81 / Dec / 2023

Indian Journal of Natural Sciences



www.inajournal.org.in ©IJONS

Vol.14 / Issue 81 / Dec / 2023

International Biweekly (Print) – Open Access

ISSN: 0976 – 1869

RESEARCH ARTICLE

Heat and Mass Transfer Effects on Rotating Fluid over Exponentially Accelerated Inclined Plate in the Presence of Hall Current with Uniform Temperature

S.Loganathan^{a*}, M.Thamizhavel^b and R.Muthucumaraswamy^c^aAssistant Professor, Department of Mathematics, School of Arts and Science, AV Campus, Virayaka Mission's Research Foundation (DU), Chennai, Tamil Nadu, India.^bAssociate Professor, Department of Mathematics, Aanapadai Vedula Institute of Technology, Virayaka Mission's Research Foundation(DU), Chennai, Tamil Nadu, India.^cProfessor, Department of Applied Mathematics, Sri Venkateswara college of Engineering, Siparumbudur (Affiliated to Anna University) Tamil Nadu, India.

Received: 19 Aug 2023

Revised: 18-Sep-2023

Accepted: 21 Nov 2023

*Address for Correspondence

S.Loganathan

Assistant Professor,

Department of Mathematics,

School of Arts and Science, AV Campus,

Virayaka Mission's Research Foundation (DU),

Chennai, Tamil Nadu, India.

E-mail: logi.santh@gmail.com



This is an Open Access journal / article distributed under the terms of the Creative Commons Attribution License (CC BY-NC-ND 4.0) which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. All rights reserved.

ABSTRACT

Theoretical Solution to the problem on MHD flow with heat and mass transfer effects on a rotating system of an electrically conducting fluid in the presence of Hall current under the influence of uniform temperature and variable mass diffusion is obtained and analysed. An exact solution of a non-dimensional form of coupled partial differential equations is obtained by the Laplace transform technique. The effect of temperature, velocity and concentration is analysed for various parameters like the Hall parameter (m), rotation parameter (R), Hartmann number (M), angle of inclination/ α and results are discussed in detail with the help of graphs using MATLAB. It has been observed that when there is an increase in the values of rotation parameter and angle of inclination, the axial velocity gets increases but the transverse velocity gets decreased. Axial velocity get increases but transverse velocity get decreases when Hall parameter values decreased.

Keywords: Hall Effect, MHD, exponentially, inclined plate, Magnetic field, uniform temperature.



66809

SCUDEM VIII 2023 JUDGE:

Dr.R.Muthucumaraswamy, Professor & Head, received Certificate of Appreciation from SIMIODE (A Systemic Initiative for Modeling Investigations & Opportunities with Differential Equations) for judging student efforts in SCUDEM VIII 2023 (SIMIODE Challenge Using Differential Equations Modeling).



RESOURCE PERSON - BOS:

Dr.R.Muthucumaraswamy, Professor & Head, attended the fourth meeting of Board of Studies, Department of Science and Humanities, R.M.K. Engineering College under autonomous system, as an Outside Resource Person on 22/1/2024.

Dr.A.Subbu alias Suba, Assistant Professor, completed 2-week FDP (online) on "Data Science and Scientific Computing", jointly organized by Central University of Punjab, Poornima University, Jaipur, Nexus University, South Africa, Baba Farid College, Bathinda and Mathtech Thinking Foundation, Punjab, from 3/1/2024 to 16/1/2024.



Dr. V.Gayathri, Assistant Professor, attended one-day national workshop on Drafting Project Proposals, Exploring Funding Opportunities and Mastering the Art of Journal Paper Presentation, organized by Department of Mathematics for Excellence, SIMATS, Thandalam, Chennai on 20/1/2024.



GUEST SPEAKER:

Dr.J.Vijayarangam, Assistant Professor, shared his expertise on the topic "Funding Agency for Research and Development Projects" as a Guest Speaker at a session organized by the Department of Computer Science and Engineering, SRM Institute of Science and Technology, Kattangulathur on 27/1/2024.



Ms.Visalakshi Subramanian and Dr. V.Gayathri, Assistant Professor attended an International FDP on "Graph Theory and its Applications", organized by Department of Mathematics, Panimalar Engineering College, Chennai. 22/1/2024.



DR. M. SUKUMAR PUBLISHED A PAPER.

Dr. M. Sukumar, Assistant Professor, Department of Applied Physics published a paper entitled, "Impact of In^{3+} doped BiFeO_3 nanoparticles prepared by direct combustion method: structural, elemental, optical, vibrational, morphology and magnetic studies" in the Journal of Material Science: Materials in Electronics, Volume - 35, Issue - 59 (2024). <https://doi.org/10.1007/s10854-023-11821-9>.



EXPERT LECTURES

Dr.N.R.Sheela, Associate Professor and Head, Department of Applied Physics invited as special invitee and delivered a motivation speech at Sri Chaitanya School, Poonamalle, Chennai for the school annual day celebrations-EUPHORIA-2K23 on 20.01.2024



DR.N.R.SHEELA, ASSOCIATE PROFESSOR AND HEAD, DEPARTMENT OF APPLIED PHYSICS ORGANISED THE EVENT "EXPERIENCE SVCE" FOR THE SCHOOL CHILDREN ON 20.01.2024



COMPLETED A INNOVATION AMBASSADOR TRAINING

Dr.N.R.Sheela, Associate Professor and Head, Department of Applied Physics has undergone webinar Innovation Ambassador (IA) training on 'Foundation Level' (Total 15 sessions and 30 contact hours) conducted by MoE's innovation Cell & AICTE during the IIC calendar year 2022-23





WORKSHOPS PARTICIPATED

Dr.T.Senthilnathan, Assistant Professor, Department of Applied Physics has participated in the Workshop on Emerging Data Engineering Technologies organized by the Department of CSE, SVCE from 29-01-2024 to 31-01-2024.



GUEST LECTURE:

Dr.Murugavel.T Professor & Head presented a guest lecture on "Gender Stereotyping in Language and Literature" organized by the Department of English, VELS Institute of Science and Technology & Advanced Studies, Chennai on 31/01/24.



School of Languages
Department of English
Invites for the Guest Lecture on

**GENDER STEREOTYPING IN
LANGUAGE AND LITERATURE**

Date: 31.01.2024, Wednesday **Time:** 10:00 a.m. – 12:00 noon
Venue: Lecture Hall, M.G.R. Block, VISTAS.

Resource Person
Dr. T. Murugavel,
Professor & Head,
Department of English,
Sri Venkateswara College of Engineering,
Pennalur Village, Chennai - Bengaluru High Road,
Sriperumbudur Tk. - 602 117, Kancheepuram Dist,
Tamil Nadu.

Dr. Ishari Ganesh
Founder – Chancellor, VISTAS

Dr. A. Jothi Murugan Pro – Chancellor (P & D), VISTAS	Dr. Arthi K. Ganesh Pro – Chancellor (Academics), VISTAS	Dr. Preethaa Ganesh Vice President, Vels Group of Institutions
Dr. S. Sriman Narayanan Vice- Chancellor, VISTAS	Dr. M. Bhaskaran Pro Vice- Chancellor, VISTAS	Dr. P. Saravanan Registrar, VISTAS

Convenor
Dr. T. SENTHAMARAI
Professor & Head, VISTAS

Co-convenors
Dr. V. JAISRE Professor
Dr. A. A. JAYASHREE PRABHAKAR Associate Professor



Certificate of Appreciation

This certificate is awarded to

Dr. T. MURUGAVEL
Professor & Head, Department of English,
Shri Venkateswara College of Engineering
has presented a **Guest Lecture** on

GENDER STEREOTYPING IN LANGUAGE AND LITERATURE
organised by the Department of English on 31st January, 2024.


Dr. T. SENTHAMARAI
Professor & Head,
Department of English

PARTICIPATED IN WORKSHOPS:

Ms. Anichamalar / Assistant Professor attended a National Level Workshop and a Webinar: A Ten Day Workshop on "NEP Orientation and Sensitization Programme under Malaviya Mission Teacher Training Programme" organized by Malaviya Mission Teacher Training Institution, MKU Madurai from 3/1/24 to 12/1/24 and "A One Day National Level Webinar on Work Based Learning: Bridging the Gap between Education and Industry" organized by the Elt@i Association on 28/1/24.

Dr. Iyuswariya Lakshmi.M.V / Assistant Professor & Dr. Sandhiya Devi / Assistant Professor attended A One Day National Level Workshop on "Enhancing and Accelerating Learning through Valid and Reliable Assessments" organized by SSN College of Engineering, Chennai on 11/1/24.



The Agenda newsletter.....

**FROM THE DEPARTMENTS OF SCIENCE AND HUMANITIES
(APPLIED CHEMISTRY, APPLIED MATHEMATICS, APPLIED PHYSICS
& HUMANITIES AND SOCIAL SCIENCES)**

EDITORIAL TEAM

Dr. G. Devasagayam
Professor
Department of Applied Chemistry

Dr. S. Ananda Babu
Assistant Professor
Department of Applied Chemistry

Dr. A. Subbu alias Suba
Assistant Professor
Department of Applied Mathematics

Dr. T. Senthilnathan
Assistant Professor
Department of Applied Physics

Mr. S. Bharathikumar
Assistant Professor
Department of Humanities and Social Sciences

Dr.S.Stanly
Professor & Head
Department of Applied Chemistry

Contact Us

CAMPUS ADDRESS:

Sri Venkateswara College of Engineering
Post Bag No.1
Pennalur Village
Chennai - Bengaluru Highways
Sriperumbudur (off Chennai) Tk. - 602 117
Tamil Nadu, India

TRUST OFFICE ADDRESS:

Sri Venkateswara Educational and Health Trust
Address: 1/3A River View Road,
Sector 3, Kotturpuram,
Chennai, Tamil Nadu 600085



acm@svce.ac.in
principal@svce.ac.in
enquiry@svce.ac.in



+91-44-27152000

VOLUME 02; ISSUE 1 JANUARY 2024 MONTHLY UPDATED