

SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Pennalur, Sriperumbudur Taluk – 602117.

Department of Mechanical Engineering




A Report on

AICTE SPONSORED TWO DAYS SEMINAR ON NATIONAL SEMINAR ON CHALLENGES AND RECENT TRENDS IN WELDING OF NON-FERROUS ALLOYS

Venue	: Seminar Hall, Dr. A.C.Muthiah Central Library
Date	: 24.11.2019 to 25.11.2019
Time	: 09:00am to 12:30pm & 01:30pm to 04:00pm


Coordinator


Hod
Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117
Tamilnadu, INDIA

RESOURCE PERSONS



Dr. G. MADHUSUDHAN REDDY

Scientist-H, Defence Metallurgical Research Laboratory (DMRL)



Dr. V. BALASUBRAMANIAN

Director, Centre for Materials Joining and Research (CEMAJOR), Annamalai University



Dr. S. R. KOTESWARA RAO

Professor, Department of Mechanical Engineering, SSN college of Engineering



Dr. G D JANAKI RAM

Associate Professor, Department of Materials science and Metallurgical Engineering, IIT–Madras



Dr.V.S. SENTHIL KUMAR

Associate Professor, Department of Mechanical Engg., College of Engineering, Guindy, Chennai



Dr. ARIVAZHAGAN

Scientist, Indira Gandhi Centre for Atomic Research, Kalpakkam



PARTHASARATHY SASI ANAND

Zonal Manager South 1 - Fronius India (P) Ltd

HOW TO APPLY

Faculty from AICTE approved Institutions and professionals from Industry / Research Scholars / PG Students can send their registration form on or before 5th November, 2017. No Registration fee. Participants selection shall be based on their field of Specialization.

Online Registration link :

<https://goo.gl/forms/8ZN4cGFkhUYyt3ll2>

ACCOMMODATION

Accommodation will be provided at nominal cost to all Outstation participants. Please inform the same in advance. No TA & DA will be paid.

Note: The applicants should enclose their recent passport size color photo for certificate purpose.

IMPORTANT DATES

Last date for receipt of Applications: 10.11.2017

Intimation of Selection : 15.11.2017

Confirmation by participants : 18.11.2017

ORGANIZING COMMITTEE

Chief Patron

Dr. A C Muthiah, Chairman, Governing Council

Patron

Dr. M.Sivanadham, Secretary, SVEHT

Shri A Muthukumar, Treasurer, SVEHT

Chair

Dr. S. Ganesh Vaidyanathan, Principal

Co - Chair

Dr K R Santha, Vice – Principal

Convener & Coordinator

Dr. S Ramesh Babu, Professor and Head, Mechanical Engg.

Mr. V. Gurusamy, Assistant Professor, Marine Engg.

Co- Coordinator

Mr. M.Maheswaran, Asst. Professor, Mechanical Engg.

Mr. Karnam Dileep, Asst. Professor, Marine Engg.

Advisory Board

Dr.K.Pitchandi, Professor/Mechanical Engg. & CoE

Prof.S.Krishnan, Professor and Head, Marine Engg.

Dr.N.Muthukrishnan, Professor, Mechanical Engg.

ADDRESS FOR COMMUNICATION

Dr. S Ramesh Babu

Convener - Professor and Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering (Autonomous)
Pennalur, Sriperumbudur-Tk,
Tamil Nadu-602117
www.svce.ac.in

Phone : 044-27152000 Extn : 400, 510

Mobile: 996 248 6928, 999 443 6427

E-mail: rameshbabu@svce.ac.in , vguru@svce.ac.in



AICTE SPONSORED SEMINAR

On

Challenges and Recent Developments

in

Welding of Non-Ferrous Alloys

24.11.2017 to 25.11.2017

Convener & Coordinator

Dr.S.Ramesh Babu

Professor and Head -Dept. of Mechanical Engineering

V.Gurusamy

Asst. Professor-Marine Engineering

Organized by



Department of Mechanical Engineering

(Accredited by NBA)

Sri Venkateswara College of Engineering

(Autonomous)

Pennalur, Sriperumbudur-TK,

Tamil Nadu-602117

www.svce.ac.in

ABOUT COLLEGE

SVCE is a unit of Sri Venkateswara Educational and Health Trust (SVEHT). The Trust was founded on 1st August 1984 at the behest and benign blessings of His Holiness Pujashree Kanchi Kamakoti Peedathipathi Sri Jayendra Saraswathi Swamigal. Dr. A. C. Muthiah, a renowned engineer, industrialist and philanthropist, is the Chairman of the Governing Council of the college. The college is in a 95 acre lush green Campus. It is housed in architecturally exquisite buildings with ample infrastructure and State of art Laboratories. While the College supports the learning of the highest order through its quality infrastructure and eminent faculty, it also provides a wide scope for excellent development of personality of students through the effectively functional Associations meant for professional, co-curricular and extracurricular activities. Within a short period, this College has taken firm strides and has grown to be at the top of the table in India. College has been conferred fresh autonomous status by UGC from the academic year 2016-17 onwards.

The college offers Ten UG and Ten PG programmes in Engineering and Technology. The College offers research programmes in several areas of Engineering and Technology faculties. More than sixty faculty members are with PhD, and they guide several PhD scholars, currently. Many major departments have research funding from various national funding agencies.

ABOUT DEPARTMENT

The Department of Mechanical Engineering is one of the three major departments established during the beginning of the College. The department has well experienced faculty and staff members of proven ability and administrative skills. 16 out of 38 faculty members are PhD degree holders. 40 research scholars have registered to pursue their PhD in the Department. The Department has well equipped state-of-the-art laboratories that cater to the needs of the students. The department also takes up industrial consultancy works from various industries in the area of conveyor design, thermostats design and testing, composite manufacturing, Vibration studies, Bio diesel testing and Welding of non ferrous alloys. Recently the Department has started providing training for the executives of leading Mechanical companies. The Programmes offered by the department are B.E. - Mechanical Engineering, M.E - Computer Aided Design, M.E - Internal Combustion Engineering, M.E - Mechatronics, M.S (by Research)- (Full time & Part time) and PhD (Full time & Part time). The UG programme of this department is accredited by National Board of Accreditation (NBA) since 1998.

The department is keen in developing the various centres of excellence with the support of experience and expertise of the faculty members. It is worth to mention that Bio-Fuel Research Cell, Fiber Reinforced Composite Research cell and Welding Research cell are the well established centres in the department.

ABOUT THE SEMINAR

For many years, the manufacturing industry has shown interest in the opportunities offered by welding of dissimilar metals. The need for appropriate and effective techniques has increased in recent decades because of efforts to build light and strong vehicles with reduced fuel consumption. In addition, the thermal conductivity, corrosion resistance, and recyclability are other reasons to weld dissimilar non-ferrous metal. Newer automobile designs aim at reducing vehicle weight. Driven by this need light metal industry is experiencing some exciting developments. One of the most widely used light metal is aluminum and magnesium. As use of aluminum and magnesium as an alternative material grows, manufacturers face newer challenges. These new challenges are development of new grades of alloys, joining of different types of alloys and improvement in weld quality of welds and weld repairs. This seminar explores difficulties in joining of newer varieties of non ferrous alloys and how various welding processes can help in meeting newer challenges of welding of non ferrous alloys. The broad objective of this seminar is:

- ♦ To identify the issues, prospects and sustainable development of welding that are relevant to the joining of Non-ferrous metals, and to discuss the implications of these for the industry.
- ♦ To know the latest developments in joining of non-ferrous alloys and the problems associated.
- ♦ To explore the possibilities of environmentally compatible automated welding technologies for Non-ferrous alloys.
- ♦ To discuss the goals and challenges in joining of non-ferrous alloys and to release the vision statement for the year 2020.



*Two-day Seminar
on
Challenges and Recent Developments in Welding of
Non-Ferrous Alloys*

Inaugural Schedule

24th November 2017

Venue : Seminar Hall, Dr. A. C. Muthiah Central Library

EVENT

- Invocation
- Welcome Address by Dr. S. Ramesh Babu, HOD - Mechanical
- Lighting Auspicious Lamp
- Address by Dr. S. Ganesh Vaidyanathan, Principal, SVCE
- Presidential address by Dr. M. Sivanandham, Secretary, SVHT
- Introduction of Chief Guest by Dr. K. Pitchandi, COE, SVCE
- Inaugural address by Dr .G. Madhusudhan Reddy, DMRL
- Proceedings / CD release
- Vote of Thanks





SRI VENKATESWARA COLLEGE OF ENGINEERING

(Autonomous - Affiliated to Anna University)

Pennalur, Sriperumbudur Taluk – 602117

Department of Mechanical Engineering

Solicit your gracious presence at the

Two-day Seminar

on

**Challenges and Recent Developments in Welding of
Non-Ferrous Alloys**

Sponsored by



to be held on 24th and 25th November 2017

Dr G Madhusudhan Reddy

Distinguished Scientist,

Defence Metallurgical Research Laboratory (DMRL)

will inaugurate and deliver the inaugural address

Dr M Sivanandham

Secretary,

Sri Venkateswara Educational & Health Trust

&

Dr S Ganesh Vaidyanathan

Principal,

Sri Venkateswara College of Engineering

will preside over the function

Venue : Seminar Hall, Dr. A. C. Muthiah Central Library

Time : 9.15 AM



AICTE sponsored seminar on
Challenges and Recent Developments in Welding of Non-Ferrous Alloys
(24.11.2017 & 25.11.2017)



Date	Time	Details
24.11.2017	8.30 AM	Registration
	9 AM	Welding Aspects of Similar and Dissimilar Non-Ferrous Metals for Defence Applications Techniques and Challenges Dr. G. Madhusudhan Reddy, Outstanding Scientist Defence Metallurgical Research Laboratory
	10.45 AM	Tea Break
	11 AM	Challenges in Friction stir welding of Aluminium alloy thick plates Dr. S. R. Koteswara Rao Professor, Mechanical Engineering, SSN College of Engineering
	12.30 PM	Lunch Break
	1.15 PM	Friction Stir Spot Welding of AZ31B Magnesium Alloy Dr. S. Ramesh Babu, Professor & Head Department of Mechanical Engineering, SVCE
	2.15 PM	Tea Break
	2.30 PM	Single-sided joining of steel and aluminum using the Fronius CMT welding process Mr. Parthasarathy Sasianand Zonal manager South, Fronius India Limited
25.11.2017	8.45 AM	Welding of magnesium alloys Dr. G.D. Janakiram, Associate Professor Department of Materials Science and Material Engineering, IIT Madras
	10 AM	Submerged Friction Stir Welding (SFSW) – Insights Dr. V. S. Senthil Kumar, Associate Professor Department of Mechanical Engineering, College of Engineering Guindy
	11 AM	Tea Break
	11.15 AM	Non-ferrous Metals: Welding Processes and few case studies Dr. B. Arivazhagan, Scientific Officer Metallurgy and Materials Group, IGCAR, Kalpakkam
	12.30 PM	Lunch Break
	1.15 PM	Welding Techniques for Joining Dissimilar Non-Ferrous Alloys Dr. V. Balasubramanian Director, Centre for Materials Joining and Research, Annamalai University
	2.30 PM	Tea Break
	2.45 PM	Valedictory function Dr. V. Balasubramanian, Director, Centre for Materials Joining and Research, Annamalai University

(24.11.2017 25.11.2017)

ATTENDANCE

S.No	NAME	24-11-2017		25-11-2017	
		FN	AN	FN	AN
1	Babu K				
2	Sam Stephen Raj P				
3	S.Thulasiraman				
4	Sathish R				
5	R Venkatesh				
6	G Damodaran				
7	S.Prasath				
8	Nandhakumar D				
9	Nambiraj M				
10	S.R.Venkataraman				
11	M.Vigneshwar				
12	Dr.S.T.Selvamani				
13	Dr V.Muthuraman				
14	B. Balamugundan				
15	Natesan Nithya				
16	Elumalai B				
17	Dr. M. Puviyarasan				
18	R.Sangama Eswaran				
19	C.Devanathan				
20	B.Vincent				
21	Jagadeesh S				
22	Ramanan.N				

Submitted
25/11/2017

(24.11.2017 25.11.2017)

ATTENDANCE

S.No	NAME	24-11-2017		25-11-2017	
		FN	AN	FN	AN
23	Balasundar P	P. Balasundar	P. Balasundar	P. Balasundar	P. Balasundar
24	Lingaraj N	N. Lingaraj	N. Lingaraj	N. Lingaraj	N. Lingaraj
25	Muniraj S	S. Muniraj	S. Muniraj	S. Muniraj	S. Muniraj
26	K Giridharan	K. Giridharan	K. Giridharan	K. Giridharan	K. Giridharan
27	B.Gowthaman	B. Gowthaman	B. Gowthaman	B. Gowthaman	B. Gowthaman
28	Jayachandran V	V. Jayachandran	V. Jayachandran	V. Jayachandran	V. Jayachandran
29	Jothiprakash Vm	J. Jothiprakash	J. Jothiprakash	J. Jothiprakash	J. Jothiprakash
30	Dr.M.Santhosham	M. Santhosham	M. Santhosham	M. Santhosham	M. Santhosham
31	Rameshkannan G	G. Rameshkannan	G. Rameshkannan	G. Rameshkannan	G. Rameshkannan
32	R. Somasundaram	R. Somasundaram	R. Somasundaram	R. Somasundaram	R. Somasundaram
33	Senthil Velan.V	V. Senthil Velan	V. Senthil Velan	V. Senthil Velan	V. Senthil Velan
34	Suresh E	E. Suresh	E. Suresh	E. Suresh	E. Suresh
35	Arun Chakkaravarthy	A. Chakkaravarthy	A. Chakkaravarthy	A. Chakkaravarthy	A. Chakkaravarthy
36	Dr A.Bhaskaran	A. Bhaskaran	A. Bhaskaran	A. Bhaskaran	A. Bhaskaran
37	Ms.S.Kalpana	S. Kalpana	S. Kalpana	S. Kalpana	S. Kalpana
38	A. K. Boobalaseshthilraj	A. K. Boobalaseshthilraj	A. K. Boobalaseshthilraj	A. K. Boobalaseshthilraj	A. K. Boobalaseshthilraj
39	K. E. Kumaraguru	K. E. Kumaraguru	K. E. Kumaraguru	K. E. Kumaraguru	K. E. Kumaraguru
40	P.Umamaheswarrao	P. Umamaheswarrao	P. Umamaheswarrao	P. Umamaheswarrao	P. Umamaheswarrao
41	L.Martin Antony	L. Martin Antony	L. Martin Antony	L. Martin Antony	L. Martin Antony
42	Selvamuthukumar D	D. Selvamuthukumar	D. Selvamuthukumar	D. Selvamuthukumar	D. Selvamuthukumar
43	Addanki Ramaswamy	A. Ramaswamy	A. Ramaswamy	A. Ramaswamy	A. Ramaswamy
44	Pragatheswaran T	T. Pragatheswaran	T. Pragatheswaran	T. Pragatheswaran	T. Pragatheswaran

Ramesh
25/11/2017

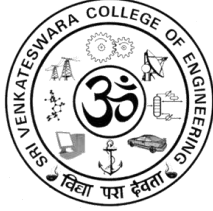
Challenges and Recent Developments in Welding of Non-Ferrous Alloys

(24.11.2017 25.11.2017)

ATTENDANCE

S.No	NAME	24-11-2017		25-11-2017	
		FN	AN	FN	AN
45	Muthukumaran S	<i>Muthukumaran S</i>	<i>Muthukumaran S</i>	<i>Muthukumaran S</i>	<i>Muthukumaran S</i>
46	M.Pardhasaradhi	<i>M.Pardhasaradhi</i>	<i>M.Pardhasaradhi</i>	<i>M.Pardhasaradhi</i>	<i>M.Pardhasaradhi</i>
47	S.Raja	<i>S.Raja</i>	<i>S.Raja</i>	<i>S.Raja</i>	<i>S.Raja</i>
48	Dr. S.Ponnuvel	<i>Dr. S.Ponnuvel</i>	<i>Dr. S.Ponnuvel</i>	<i>Dr. S.Ponnuvel</i>	<i>Dr. S.Ponnuvel</i>
49	Ramesh R	<i>R.Ramesh</i>	<i>R.Ramesh</i>	<i>R.Ramesh</i>	<i>R.Ramesh</i>
50	Jeyakrishnan P	<i>Jeyakrishnan P</i>	<i>Jeyakrishnan P</i>	<i>Jeyakrishnan P</i>	<i>Jeyakrishnan P</i>
51	V. Sridharan	<i>V. Sridharan</i>	<i>V. Sridharan</i>	<i>V. Sridharan</i>	<i>V. Sridharan</i>
52	Dr. M. Prem Ananth	<i>Dr. M. Prem Ananth</i>	<i>Dr. M. Prem Ananth</i>	<i>Dr. M. Prem Ananth</i>	<i>Dr. M. Prem Ananth</i>
53	R.R. Ramesh	<i>R.R. Ramesh</i>	<i>R.R. Ramesh</i>	<i>R.R. Ramesh</i>	<i>R.R. Ramesh</i>
54	Dr. C. Senthamarikannan	<i>C. Senthamarikannan</i>	<i>C. Senthamarikannan</i>	<i>C. Senthamarikannan</i>	<i>C. Senthamarikannan</i>
55	R. Kaliyanasunder	<i>R. Kaliyanasunder</i>	<i>R. Kaliyanasunder</i>	<i>R. Kaliyanasunder</i>	<i>R. Kaliyanasunder</i>
56	Dr. S. Natarajan	<i>Dr. S. Natarajan</i>	<i>Dr. S. Natarajan</i>	<i>Dr. S. Natarajan</i>	<i>Dr. S. Natarajan</i>
57	Dr. M. Mohandass	<i>Dr. M. Mohandass</i>	<i>Dr. M. Mohandass</i>	<i>Dr. M. Mohandass</i>	<i>Dr. M. Mohandass</i>
58	Dr. S. Ilaiyavel	<i>Dr. S. Ilaiyavel</i>	<i>Dr. S. Ilaiyavel</i>	<i>Dr. S. Ilaiyavel</i>	<i>Dr. S. Ilaiyavel</i>
59	K. Palani	<i>K. Palani</i>	<i>K. Palani</i>	<i>K. Palani</i>	<i>K. Palani</i>
60	A. Kumaraswamy	<i>A. Kumaraswamy</i>	<i>A. Kumaraswamy</i>	<i>A. Kumaraswamy</i>	<i>A. Kumaraswamy</i>
61	M. Gajendiran	<i>M. Gajendiran</i>	<i>M. Gajendiran</i>	<i>M. Gajendiran</i>	<i>M. Gajendiran</i>

Ramesh
25/11/2017



AICTE sponsored
**TWO DAYS SEMINAR ON NATIONAL SEMINAR ON CHALLENGES
AND RECENT TRENDS IN WELDING OF NON-FERROUS ALLOYS**
(24th and 25th November 2017)

Organized by
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
(An Autonomous Institution Affiliated to Anna University Chennai)
Pennalur, Sriperumbudur-Tk, Tamil Nadu, India-602117.
www.svce.ac.in



SEMINAR REPORT

Editors
Prof. S. Ramesh Babu
V.Gurusamy

A two-day **AICTE sponsored National Seminar on “Challenges and Recent trends in Welding of non-Ferrous Alloys”** was organized by Department of Mechanical and Marine Engineering, Sri Venkateswara



Inaugural Function

Venue: Seminar Hall, Dr. A C Muthiah Central Library, SVCE

College of Engineering(SVCE), Sriperumbudur. The inaugural session began with the Tamizhazh Vazhu followed by the Welcome Speech delivered by Prof. S.Ramesh Babu PhD., Convener of the Seminar and Head of the Department, Mechanical Engineering, SVCE. In his welcome address, Prof. S Ramesh Babu

highlighted the importance of this seminar, center of excellence and research achievements of the department. Dr. K. Pitchandi, Controller of Examinations, SVCE introduced the distinguished Chief guest Dr. G. Madhusudhan Reddy.

Dr. G.Madhusudhan Reddy, Outstanding Scientist, Defence Metallurgical Laboratory (DMRL) inaugurated the seminar and talked about the development of new non-ferrous metals and their applications in various areas. Dr. S. Ganesh Vaidyanathan, Principal, SVCE presided over the function and in his address he highlighted the research capabilities of the college and the department of Mechanical Engineering. Mr. V.Gurusamy, Asst. Professor-Marine Engineering proposed the vote of thanks.



Dr. S. Ramesh Babu HoD/Mechanical, SVCE



Dr.S.Ganesh Vaidyanathan, Principal , SVCE



Dr. G.Madhusudhan Reddy, Outstanding Scientist, Defence Metallurgical Laboratory (DMRL)



Participants

Report on Technical Sessions
Venue: Seminar Hall, Dr. A C Muthiah Central Library, SVCE

24.11.2017

Technical Session 1

9.00 am to 10.45 am

Name of the Speaker : **Dr. G.Madhusudhan Reddy, Scientist-H,
Defence Metallurgical Research Laboratory, Hyderabad.**

Dr. G.Madhusudhan Reddy talked about welding aspects of similar and dissimilar Non-ferrous metals for Defence applications. He gave insight about the techniques and challenges faced in the joining of similar and dissimilar non-ferrous metals and he explored the availability of new materials, various potential areas and research avenues related non-ferrous metals and joining.



24.11.2017

Technical Session II

11.00 am to 12.30 pm

Name of the Speaker : **Dr. S R Koteswara Rao, Professor
Mechanical Engineering, SSN College of Engineering, Chennai**

Dr. S R Koteswara Rao gave expert talk on challenges in friction stir welding of Aluminum alloy thick plates. He explained the various problems and challenges associated with the joining thick plates especially with the help of solid state welding like friction welding, friction stir welding etc., A successful way of joining thick aluminum plate was narrated by him with help of an experimental investigation.



24.11.2017

Technical Session III

1.15 pm to 2.15 pm

Name of the Speaker : **Dr. S Ramesh Babu, Professor & Head
Mechanical Engineering, Sri Venkateswara College of Engineering, Chennai**

Dr.S Ramesh Babu presented the topic on Friction stir spot welding of AZ31B magnesium alloys. He explained the methodology to join the AZ31B magnesium alloys using spot welding technique using friction stir welding process.



24.11.2017

Technical Session IV

2.30 pm to 4.00 pm

Name of the Speaker : **Mr. Sasianand Parthasarathy
Zonal Manager South, Fronius India Pvt. Limited**

The speaker explained how the single sided joining of steel and aluminum have been carried out using CMT welding process. He addressed the process capabilities of cold metal transfer welding process like Low heat input for stable welded joints, less accumulation inter-metallics etc.,



25.11.2017

Technical Session I

8.45 am to 10.00 am

Name of the Speaker : **Dr. G D Janaki Ram, Associate Professor**
Department of Material Science and Metallurgical Engineering, IIT Madras

Dr. G D Janakiram gave his technical talk on welding of Magnesium alloys. In this talk, welding metallurgy and weldability of magnesium alloys will be briefly reviewed. The major problems in fusion welding of magnesium alloys and how they can be overcome will be discussed. The benefits of using friction stir welding for joining of magnesium alloys will be brought out. Further, the use of friction stir processing as a pretreatment to fusion welding will be considered for overcoming specific weldability problems such as heat-affected zone liquation cracking.



25.11.2017 Technical Session II 10.00 am to 11.00 am

Name of the Speaker : **Dr. V S Senthil Kumar, Associate Professor**
Department of Mechanical Engineering, College of Engineering Guindy.

Dr. V S Senthil Kumar gave talk on insights of submerged Friction Stir Welding (SFSW). He explained how the submerged friction stir welding is carried out and the process capabilities of the SFSW. A case study was also presented by the speaker.



25.11.2017 Technical Session III 11.15 am to 12.30 pm

Valedictory Function**Venue: Seminar Hall, Dr. A C Muthiah Central Library, SVCE**

Name of the Speaker : **Dr. B.Arivazhagan, Scientific Officer
Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research,
Kalpakkam.Tamil Nadu.**

Dr. B.Arivazhagan presented the guest lecture on Non-ferrous Metals: Welding Processes and few case studies. He narrated the various welding processes suitable for joining of non-ferrous alloys and the challenges associated with them with the help of some case studies.

**25.11.2017****Technical Session IV****1.15 am to 2.30 pm**

Name of the Speaker : **Dr. V. Balasubramanian, Director
Center for Material Joining and Research (CEMAJOR), Annamalai University,
Chidambaram, Tamil Nadu.**

Dr. V. Balasubramanian gave exemplary talk on Welding Techniques for Joining Dissimilar Non-Ferrous Alloys. He covered the latest welding process available for joining of non-ferrous metals. He also explained the advantages, disadvantage, applications and suitability of the various processes.



The valedictory session began with the welcome speech made by **Prof. S. Ramesh Babu, Head, Mechanical Engineering, SVCE**. In his welcome address, Prof. S. Ramesh Babu warmly welcomed all the guests and the

participants at large for the final session of Two-day National Seminar on Challenges and Recent trends in Welding of non-Ferrous Alloys. He also presented the Seminar Report that covered all the events which took place in all the prior sessions of this seminar. **Prof. K S Badrinathan Dean(Educational Development)**, SVCE delivered a presidential address. In his address, he reflected the importance of welding and the opportunities for research in the area of non-ferrous metal joining.



Dr. S.Ramesh Babu, Convenor of the Seminar and HoD-Mechanical, SVCE in his welcome Address



Dr. K. S. Badrinathan, Dean-Educational Development and Professor-Mechanical, SVCE in his presidential address



Prof.V. Balasubramanian, Professor & Director, Centre for Materials Joining & Research (CEMAJOR), ANNAMALAI UNIVERSITY



Prof. K S. Badrinathan, Dean-Educational Development honoring the Chief guest Prof.V. Balasubramanian, Professor & Director, Centre for Materials Joining & Research (CEMAJOR), ANNAMALAI UNIVERSITY



Feedback Session



Mr. V.Gurusamy, Asst. Professor-Marine Engineering in his vote of Thanks

In the capacity of Guest of Honour for the occasion , **Prof.V. Balasubramanian, Professor & Director, Centre for Materials Joining & Research (CEMAJOR), ANNAMALAI UNIVERSITY** spoke about the various challenges faced by the country and the necessity of contributions from the research scholars, scientists and the faculty fraternity.



Group Photo of all the participants

He insisted upon the quality research and timely completion of research work and its contribution to the society. Reflections and Feedback were received from each and every participant of the whole event followed by distribution of certificates. **Mr. V Gurusamy Asst. Prof., Department of Marine Engineering, SVCE** gave the Vote of Thanks and **Mr. S. Maheswaran Asst, Professor -Mechanical Engineering** and **Mr.Karnam Dileep, Asst. Professor, Marine Engineering, SVCE** anchored the whole sessions of the Seminar.

*****End of report*****

AICTE sponsored seminar on
Challenges and Recent Developments in Welding of Non-Ferrous Alloys
SEMINAR FEEDBACK FORM

PRESENTER(S):
DAY 1: Dr. G. Madhusudhan Reddy, Dr. S. R. Koteswara Rao,
 Mr. Parthasarathy Sasianand,
DAY 2: Dr. G.D. Janakiram, Dr. V. S. Senthil Kumar, Dr. B. Arivazhagan,
 Dr. V. Balasubramanian

DATES:
 24/11/17
 & 25/11/17

- OBJECTIVES:**
1. To Understand the recent Challenges in the Welding on Non-Ferrous Alloys
 2. To enhance the knowledge in the recent developments in welding the Non-ferrous Alloys

Round the relevant columns:

How well were these areas addressed ?	Highly Agree	Agree	OK	Disagree	Highly Disagree
Presentation met stated objectives	5 ✓	4	3	2	1
Presentation was interesting	5 ✓	4	3	2	1
Material was new to me	5 ✓	4	3	2	1
Presentation was relevant	5 ✓	4	3	2	1
Presentation delivery	5 ✓	4	3	2	1
Knowledge of subject	5 ✓	4	3	2	1
Audio – Visual materials	5 ✓	4	3	2	1
Question and Answer Period	5 ✓	4	3	2	1

What was / were the strength(s) of the presentation?


speakers & Content

What additional information would you like to suggest ?

nil

Suggested topics for future presentation?

seminar on submerged friction stir welding


 Signature with Name
 G. RAMESHWARAN

----- THANK YOU FOR YOUR FEEDBACK -----

Challenges and Recent Developments in Welding of Non-Ferrous Alloys

SEMINAR FEEDBACK FORM

PRESENTER(S):

DAY 1: Dr. G. Madhusudhan Reddy, Dr. S. R. Koteswara Rao,
Mr. Parthasarathy Sasianand,
DAY 2: Dr. G.D. Janakiram, Dr. V. S. Senthil Kumar, Dr.B.Arivazhagan,
Dr. V. Balasubramanian

DATES:

24/11/17
& 25/11/17

OBJECTIVES:

1. To Understand the recent Challenges in the Welding on Non-Ferrous Alloys
2. To enhance the knowledge in the recent developments in welding the Non-ferrous Alloys

Round the relevant columns:

How well were these areas addressed ?	Highly Agree	Agree	OK	Disagree	Highly Disagree
Presentation met stated objectives	5	4	3	2	1
Presentation was interesting	5	4	3	2	1
Material was new to me	5	4	3	2	1
Presentation was relevant	5	4	3	2	1
Presentation delivery	5	4	3	2	1
Knowledge of subject	5	4	3	2	1
Audio – Visual materials	5	4	3	2	1
Question and Answer Period	5	4	3	2	1

What was / were the strength(s) of the presentation?

Topics are so advanced and applications relevant are very useful.

What additional information would you like to suggest ?

Speakers are from Repeated industries & Institutions. They made the programme helpful to my Research in future.

Suggested topics for future presentation?

Diffusion Welding & Magnetic pulse welding.

N. Lingaraj
Signature with Name

----- THANK YOU FOR YOUR FEEDBACK -----

(LINGARAJ.N
AP/Mech
RIT)