



Malnad College of Engineering, Hassan

(An Autonomous Institute, Affiliated to V.T.U, Belagavi)

Faculty Biodata

GENERAL INFORMATION AND ACADEMIC BACKGROUND

PART-A

1.	Name (in Block Letters)	DR. PRASANNA A. A.
2.	Qualification	M. Sc., Ph. D.
3.	Date of joining the service at MCE	26.02.2018
4.	Department	PHYSICS
5.	Current Designation & Experience in MCE	Associate Professor 6 years
6.	Teaching Experience: U.G. (in Years) :	22 years
Research Experience (in Years)		
7.	a) Total Number of years b) Years spent in M. Phil. / Ph.D. c) Years of Guiding Ph.D. / M. Phil. d) Total No. of papers Published in i. International Journals ii. National Journals iii. Conference Proceedings e) Total No. of Conferences/Seminar/Workshop Attended i. International ii. National iii. State Level	a) 03 b) 04 years c) 05 Years d) Total No. of papers Published in i. 16 ii. 00 iii. 04 e) Total No. of Conferences/Seminar/Workshop Attended i. 16 ii. 04 iii. 00
8.	Awards /Prizes/ Honor's / Recognitions	1. Best poster presentation in Research Scholars Day (held on 29 Dec.2010, IIT Kharagpur). 2. Best oral presentation in International Conference on Nanoscience, Engineering, and Technology (held

		during Nov. 28-30, 2011, Sathyabama University, Chennai, India).
9.	Fields of Specialization under the Subject / Discipline	Solid State physics, Materials Science
10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	20

PART-B

1. List of Publications:

Sl. No.	Year	Articles	Title of the paper
Journal articles (Impact Factor up to 3.7)			
1	2023	Journal of Materials Research, Online First Article, July, 2023	Superparamagnetic and spin glass characteristics with Griffiths phase in $Ni_{50}Mn_{30-x}Fe_xSn_{20-y}Sb_y$ ($1 \leq x \leq 4$ and $2 \leq y \leq 8$) Heusler alloys
2	2023	Journal of Materials Research, Volume 38 Issue 8 April 2023 ISSN 2044-5326	Near Room Temperature Martensitic transition in Ductile $Ni_{50}Mn_{30-x}Fe_xSn_{20-y}Sb_y$ ($1 \leq x \leq 4$ and $2 \leq y \leq 8$) Heusler alloys
3	2023	Journal of Composite Science, Vol. 7, 1 and pp.1-15, ISSN 2504-477X	Martensitic Transformation and Magnetic Properties of Ni-Mn Quinary Heusler Alloy
4	2023	Journal of Composite Science, Vol.7,5 and pp. 1-14, ISSN 2504-477X	Investigation on Magnetization, Magnetocalory, Magnetoresistance, and Electric Properties of Ni-Mn Based Heusler Alloy
5	2022	<i>Engineered Science</i> , 17 , pp. 303-308, ISSN 2576988X, 25769898	Microstructure and Mechanical Properties of Annealed Quinary Ni-Mn-Sn-Fe-In Heusler Alloy

6	2022	<i>Manufacturing Review</i> , 9, 4, pp. 1-5, ISSN 22654224	Vickers micro-hardness variation during change in concentration of constituent elements in $\text{Ni}_{50-x}\text{Fe}_x\text{Mn}_{30}\text{Sn}_{20-y}\text{In}_y$, Heusler alloys,
7	2021	<i>Journal of Physics: Conference Series</i> , 2070, 012231, ISSN 1742-6588 (print) 1742-6596 (web)	Martensitic transformation behavior and structural characteristics of annealed Ni-Mn-Sn-Fe-In Heusler alloy
8	2021	<i>Advances in Sustainability Science and Technology</i> , Springer Nature, pp. 155, ISSN 2662-6829 ISSN 2662-6837 (electronic) ISBN 978-981-16-1118-6 ISBN 978-981-16-1119-3 (eBook)	Magnetoelastic Transition in Energy Efficient Magnetic Refrigerant $\text{Ni}_{50}\text{Mn}_{32}\text{Sn}_{18}$ Heusler Alloy
9	2020	<i>International Journal of Mechanical and Production Engineering Research and Development</i> , Vol. 10, Issue 4, 29–46, ISSN (P): 2249–6890; ISSN (E): 2249–8001	Analysis on magnetocaloric and structural properties of Heusler alloys used in magnetic refrigeration
10	2013	<i>Science and Technology of Advanced Materials</i> , Vol. 14, pp.015004(13).	Local strains, calorimetry, and magnetoresistance in adaptive martensite transition in multiple nanostrips of $\text{Ni}_{39+x}\text{Mn}_{50}\text{Sn}_{11-x}$ ($x \leq 2$) alloys
11	2013	<i>Journal of Nanoscience and Nanotechnology</i> , Vol. 13, pp. 5351-5359.	Consecutive magnetic and magnetocaloric transitions in a Heusler $\text{Mn}_{50}\text{Ni}_{41}\text{Sn}_9$ alloy of herringbone nanostructure
12	2013	<i>Advanced Nanomaterials and Nanotechnology</i> , Springer Proceedings in Physics, 143, pp. 441-448	Herringbone nanostructure and thermal properties in martensite transition in ferromagnetic $\text{Ni}_{39+x}\text{Mn}_{50}\text{Sn}_{11-x}$ Heusler alloys
13	2012	<i>Journal of Emerging Trends in Engineering and Applied Sciences</i> , Vol. 3, pp. 601-607	Attenuating large magneto-entropy, heat-capacity and adiabatic temperature change in Heusler $\text{Ni}_{41-x}\text{Mn}_{50}\text{Sn}_{9+x}$ ($x \leq 1.5$) alloys

14	2011	<i>American Institute of Physics: Conference Proceedings</i> , Vol. 1447, pp. 980-981.	Giant Hall resistivity at low magnetic fields in nanocrystalline Ni ₅₀ Mn ₃₂ Sn ₁₈ Heusler alloy
15	2011	<i>IEEE Xplore</i> , ISBN: 978-1-4673-0072-8, pp. 424-427.	Effect of crystallite size on Vickers microhardness in nanostructured Heusler Ni _{39+x} Mn ₅₀ Sn _{11-x} ($x \leq 2$) alloys,
16	2011	<i>Functional Materials</i> , Ed. Jayakumar, S. Vaideki, K. and Balaji, R. (2011), McMillan Publishers Ltd: New Delhi. ISBN: 978-935-059-046-1, pp.195-198.	Large adiabatic temperature change in magnetoelastic transition in nanocrystallites of Heusler Ni ₅₀ Mn ₃₂ Sn ₁₈ alloy
Conference presentations			
1	2012	99 th Indian Science Congress (held during Jan. 3-7, 2012, at Bhubaneswar, India), MSP-54.	Nanostructured Heusler Ni ₅₀ Mn _{25+x} Sn _{25-x} ($7 \leq x \leq 12$) alloys a potential magnetic coolant with structural magnetic transitions
2	2011	56th DAE-Solid State Physics Symposium (held during Dec. 19-23, 2011, at SRM University, Chennai, India), P-225, I-15	Giant Hall resistivity at low magnetic fields in nanocrystalline Ni ₅₀ Mn ₃₂ Sn ₁₈ Heusler alloy,
3	2011	International Conference on Advanced Materials (held during Dec. 12-16, 2011, at PSG College of Technology, Coimbatore, India), G020, pp. 155.	Large adiabatic temperature change in magnetoelastic transition in nanocrystallites of Heusler Ni ₅₀ Mn ₃₂ Sn ₁₈ alloy
4	2011	International Conference on Advances in Materials and Materials Processing (held during Dec. 9-11, 2011, at IIT Kharagpur, West Bengal, India), pp. 195	Coexistence of martensite and austenite states in a Heusler Ni _{39+x} Mn ₅₀ Sn _{11-x} ($x \leq 2$) alloy of nanolaminates,
5	2011	International Conference on Advanced Nanomaterials and Nanotechnology (held during Dec. 8-10, 2011, at IIT Guwahati, Assam, India), pp. 393.	Irreversible caloric transitions in Heusler Ni-Mn-Sn alloys of granular nanostructure
6	2011	International Conference on Theoretical and Applied physics (held during Dec. 1-2, 2011, at IIT Kharagpur, West Bengal, India), p.146	Effect of residual local strains on functional properties in a granular nanostructure in Heusler Ni _{39+x} Mn ₅₀ Sn _{11-x} ($x \leq 2$) alloys
7	2011	International Conference on Nanoscience, Engineering, and Technology (held during Nov. 28-30,	Effect of crystallite size on Vickers microhardness in nanostructured Heusler Ni _{39+x} Mn ₅₀ Sn _{11-x} ($x \leq 2$) alloys

		2011, at Sathyabama University, Chennai, India), pp.492.	
8	2011	National Conference cum Workshop on Recent Developments in Engineering Materials (held during May 12–14, 2011, at Birla Institute of Technology, Mesra, Ranchi, India), OP1, pp. 10.	Magnetic field dependence of martensite transition and magnetocalory in Heusler $\text{Ni}_{50}\text{Mn}_{32}\text{Sn}_{18}$ alloy
9	2011	National Conference on Sensors & Actuators: Science to Technology (held during March 11–12, 2011, at CGCRI, Kolkata, West Bengal, India), P46, pp. 92	Heusler $\text{Ni}_{50}\text{Mn}_{32}\text{Sn}_{18}$ alloy; a potential magnetic sensing material,
10	2011	National Conference on Magnetic Materials and Applications (held during Jan. 24-25, 2011, at S. N. Bose National Centre for Basic Sciences, Kolkata, India), PP32, pp. 121.	Successive phase transitions and inverse magnetocalory in $\text{Ni}_{41-x}\text{Mn}_{50}\text{Sn}_{9+x}$ Heusler alloys,
11	2010	International Symposium on Materials Chemistry (held during Dec. 7-11, 2010, at Bhabha Atomic Research Centre, Mumbai, India), F-11, pp. 255.	Ferromagnetism in austenite and martensite states in a new $\text{Ni}_{40.5}\text{Mn}_{50}\text{Sn}_{9.5}$ Heusler alloy of nanocrystallites,
12	2010	International Conference on Fundamental and Applications of Nanoscience and Technology (held during Dec. 9-11, 2010, at JadHAVpur University, Kolkata, West Bengal, India), P28, pp.154	Magnetoresistance in Ni-Mn-Sn nanocrystalline Heusler alloys,
13	2010	International Conference on Multifunctional Materials (held during Dec. 6-9, 2010, at Department of Physics, Banaras Hindu University, Utter Pradesh, India), PP110, pp. 230	Anomalous electrical and magnetotransport properties in Ni-Mn-Sn Heusler alloys,
14	2010	National Seminar on Ferroelectrics and Dielectrics-XVI (held during Dec. 2-4, 2010, at Guru Ghasidas University, Bilaspur, Chattisgarh, India), P34, pp. 65.	Heusler $\text{Ni}_{50}\text{Mn}_{50-x}\text{Sn}_x$ alloys a possible multiferroic material,
15	2010	International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences (held during Nov. 18-19, 2010	Magnetoresistance in ferromagnetic Ni-Mn-In Heusler alloys”
16	2010	National Metallurgists’ Day-Annual Technical Meeting (held during Nov. 14-16, 2010, at Indian Institute of Science, Bangalore, India), P1.45, pp. 29.	Martensite transformation in $\text{Ni}_{40.5}\text{Mn}_{50}\text{Sn}_{9.5}$ nanocrystallites,

17	2010	International Conference on Nanomaterials (held during Apr. 27-29, 2010, at Mahatma Gandhi University, Kottayam, Kerala, India), IL86, pp. 80.	Anomalous change in electrical resistivity in martensite to austenite transition in Ni ₂ MnSn nanocrystallites of Heusler alloys
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2. **Responsibilities in the Department and Institute / University:** (DAC,DPC, BOS, BOE etc., Institutional Governance responsibilities like, Dean, Chief warden, Warden, HOD's, School/Centre Chairperson, IQAC Coordinator etc.)

Sl. No	Responsibilities
1.	Chairman-BOE of Physics
2.	Examination Coordinator/Deputy Chief Superintendent
3.	Member-Research Advisory Committee of the college
4.	Member-BOS of Physics
5.	Member-Antiragging Committee
6.	Academic Coordinator

3. **Details of Teaching Related Activities**

Sl. No.	Academic Year	(B. E/M.Tech)	Course Title
1	2023-24	B. E.	Physics for Electrical and Electronics Stream
2	2022-23	B. E.	Physics for Computer Science Stream
3	2021-22 to 2018-19	B. E.	1. Engineering Physics 2. Physics laboratory

Professional Development Activities		
1	Membership in profession related committees at state and national level a) At national level: :	1. Indian Society for Technical Education, New Delhi 2. Society for Materials Chemistry, BARC, India
2	Participation in subject associations, conferences, seminars without paper presentation	Workshop on New Model Curriculum held at Sahyadri Engg. College, Mangalore, on 19 May 2018
3	Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance	Four FDPs/Workshops
4	Membership/participation in State/Central Bodies/Committees on Education, Research and National Development	1. Member-Doctoral Expert Committee, MIT Manipal. 2. Member-Doctoral Expert Committee, VTU Belagavi.

PART-C

RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

3. Published Papers in Journals

Sl. No.	Year	Articles (All are peer reviewed) (Impact factor up to 3.7)	No. of Co-authors	Whether you are the main author or Guide / mentor
1	Superparamagnetic and spin glass characteristics with Griffiths phase in $Ni_{50}Mn_{30-x}Fe_xSn_{20-y}Sb_y$ ($1 \leq x \leq 4$ and $2 \leq y \leq 8$) Heusler alloys	Journal of Materials Research, Online First Article, July, 2023	2	Research Guide
2	Near Room Temperature Martensitic transition in Ductile $Ni_{50}Mn_{30-x}Fe_xSn_{20-y}Sb_y$ ($1 \leq x \leq 4$ and $2 \leq y \leq 8$) Heusler alloys	Journal of Materials Research, Volume 38 Issue 8 April 2023 ISSN 2044-5326	2	Research Guide

3	Martensitic Transformation and Magnetic Properties of Ni-Mn Quinary Heusler Alloy	Journal of Composite Science, Vol. 7, 1 and pp.1-15, 2023 ISSN 2504-477X	3	Co-author
4	Investigation on Magnetization, Magnetocalory, Magnetoresistance, and Electric Properties of Ni-Mn Based Heusler Alloy	Journal of Composite Science, Vol.7,5 and pp. 1-14, ISSN 2504-477X, 2023	3	Co-author
5	Microstructure and Mechanical Properties of Annealed Quinary Ni-Mn-Sn-Fe-In Heusler Alloy	<i>Engineered Science</i> , 17 , pp. 303-308, 2022 ISSN 2576988X, 25769898	3	Co-author
6	Vickers micro-hardness variation during change in concentration of constituent elements in Ni _{50-x} Fe _x Mn ₃₀ Sn _{20-y} In _y , Heusler alloys,	<i>Manufacturing Review</i> , 9, 4, pp. 1-5, 2022 , ISSN 22654224	3	Co-author
7	Martensitic transformation behavior and structural characteristics of annealed Ni-Mn-Sn-Fe-In Heusler alloy	Journal of Physics: Conference Series, 2070, 012231, ISSN 1742-6588 (print) 1742-6596 (web), 2021	3	Co-author
8	Magnetoelastic Transition in Energy Efficient Magnetic Refrigerant Ni ₅₀ Mn ₃₂ Sn ₁₈ Heusler Alloy	Advances in Sustainability Science and Technology, Springer Nature, pp. 155, ISSN 2662-6829 ISSN 2662-6837 (electronic) ISBN 978-981-16-1118-6 ISBN 978-981-16-1119-3 (eBook), 2021	3	Single Author
9	Analysis on magnetocaloric and structural properties of Heusler alloys used in magnetic refrigeration	International Journal of Mechanical and Production Engineering Research and Development, Vol. 10, Issue 4, 29–46, 2020	3	Co-author

		ISSN (P): 2249–6890; ISSN (E): 2249–8001		
10	Local strains, calorimetry, and magnetoresistance in adaptive martensite transition in multiple nanostrips of $\text{Ni}_{39+x}\text{Mn}_{50}\text{Sn}_{11-x}$ ($x \leq 2$) alloys	<i>Science and Technology of Advanced Materials</i> , Vol. 14, pp.015004(13), 2013	1	Main Author
11	Consecutive magnetic and magnetocaloric transitions in a Heusler $\text{Mn}_{50}\text{Ni}_{41}\text{Sn}_9$ alloy of herringbone nanostructure	<i>Journal of Nanoscience and Nanotechnology</i> , Vol. 13, pp. 5351-5359, 2013	2	Main Author
12	Herringbone nanostructure and thermal properties in martensite transition in ferromagnetic $\text{Ni}_{39+x}\text{Mn}_{50}\text{Sn}_{11-x}$ Heusler alloys	<i>Advanced Nanomaterials and Nanotechnology</i> , Springer Proceedings in Physics, 143, pp. 441-448, 2013	1	Main Author
13	Attenuating large magneto-entropy, heat-capacity and adiabatic temperature change in Heusler $\text{Ni}_{41-x}\text{Mn}_{50}\text{Sn}_{9+x}$ ($x \leq 1.5$) alloys	<i>Journal of Emerging Trends in Engineering and Applied Sciences</i> , Vol. 3, pp. 601-607, 2012	1	Main Author
14	Giant Hall resistivity at low magnetic fields in nanocrystalline $\text{Ni}_{50}\text{Mn}_{32}\text{Sn}_{18}$ Heusler alloy	<i>American Institute of Physics: Conference Proceedings</i> , Vol. 1447, pp. 980-981, 2011	1	Main Author
15	Effect of crystallite size on Vickers microhardness in nanostructured Heusler $\text{Ni}_{39+x}\text{Mn}_{50}\text{Sn}_{11-x}$ ($x \leq 2$) alloys,	<i>IEEE Xplore</i> , ISBN: 978-1-4673-0072-8, pp. 424-427, 2011	1	Main Author
16	Large adiabatic temperature change in magnetoelastic transition in nanocrystallites of Heusler $\text{Ni}_{50}\text{Mn}_{32}\text{Sn}_{18}$ alloy	<i>Functional Materials</i> , Ed. Jayakumar, S. Vaideki, K. and Balaji, R. (2011), McMillan Publishers Ltd: New Delhi. ISBN: 978-935-059-046-1, pp.195-198, 2011	1	Main Author

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4. Training Courses, Teaching-Learning-Evaluation Technology Programs, Faculty development Programmes (ALL ARE ATTENDED)

Sl. No	Name of Course/Summer/Winter School	Organized by	Duration	Sponsoring Agency
01	Elementary FDP on "Quantum and Photonics"	Online portal	29/11/2021 to 03/12/2021	ATAL
02	Faculty Development Program for 'Students Induction Program'	Online portal	21-25, Sept. 2020 One week	AICTE
03	Electrical characterization of materials and devices	Online portal (WEBINAR)	6 August 2020	Tektronix & STARCOM
04	Online Course on 'Online Teaching'	Online portal	27 July – 21 Sept. 2020 Eight Weeks	IUCEE
05	Digital Transformation in Teaching Learning Process	Online portal	6-22 April 2020 Two and a half weeks	TEQIP-III & NPIU
06	Course on Accreditation and Outcome Based Learning	Online portal	26 Aug – 23 Sept. 2019 Eight weeks	NPTEL-SWAYAM
07	Faculty Development Program for 'Students Induction Program' for AICTE Approved institutions	Dept. of E&CE, Sri Venkateswara College of Engineering, Bengaluru.	23-29, July 2019 One week	AICTE
08	Short-Term Programme on Smart Grid and Smart City: Recent Trends (SmaRT-2019)	Dept. of E&EE, MCE, Hassan	8-13, July 2019 One week	AICTE

09	Faculty Development Program on Students Induction	VTU Belagavi	24-26, June 2019 3-Days	AICTE
10	Faculty Development Programme on ‘Research Opportunities and Challenges in Advance Materials and Manufacturing’	Dept. of Mech. Engg., MCE, Hassan	17-22, Dec. 2018 One Week	TEQIP-III
11	Workshop on Outcome Based Education.	The Heritage (Organized by MCE), Hassan	04-05, August 2018 2 days	TEQIP-III
12	Interdisciplinary Faculty Development Programme on Recent Developments in Solar & Wind energy System for On/Off Grid Applications.	Dept. of E &EE, MCE, Hassan	9-13, July, 2018 One Week	TEQIP-III
13	Workshop on New Model Curriculum	Sahyadri Engg. College, Mangalore	19 May 2018 One day	VTU, Belagavi
14	Faculty Development Programme on Challenges in Nonconventional Energy Sources	Dept. of Automobile Engg., MCE, Hassan	9-13 April, 2018 One Week	TEQIP-III
15	School on ‘Physics with Low Temperature and High Magnetic Field’	UGC-DAE Consortium of Scientific research, University Campus, Indore (M. P.)	14-18, March 2011 One week	UGC-DAE
16	Short Term Course on Chemical Synthesis of Ferroic Ceramics: Understanding on the Structure–Property Correlation and Industrial Applications.	Materials Science Centre, IIT Kharagpur.	05-16, November 2007 Two Week	AICTE

5. Papers presented in Conferences, Seminars, Workshops, Symposia

Sl. No	Title of the paper presented	Title of Conference / Seminar etc.	Date(s) of the event	Organized by	Whether International / National / State / Regional / University or College Level
1.	Martensitic transformation behavior and structural characteristics of annealed Ni-Mn-Sn-Fe-In Heusler alloy	Second International Conference on Advances in Physical Sciences and Materials (ICAPSM)	12 -13, August 2021	SNS College of Technology, and IOP Science(UK), Coimbatore, Tamil Nadu, India during	International
2.	Magnetoelastic transition in energy efficient magnetic refrigerant Ni ₅₀ Mn ₃₂ Sn ₁₈ Heusler alloy,	First Conference on Innovations in Sustainable Energy and Technology.	3-4, Dec. 2020	Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Bengaluru	National
3.	Multifunctional properties in nanostructured Heusler alloys	International conference on Advanced Materials and technology	16-18, Jan. 2020	SJCE, Mysore	International
4.	Magnetic refrigeration: an environment friendly cooling technique	20 th National Conference on Solid State Nuclear Detectors and their Applications,	26 to 28 October, 2017	VVIET , Mysore.	National
5.	Synthesis of a novel series of multiferroic Ni _{41-x} Ag _x Mn ₅₀ Sn ₉ (x≤2) Heusler alloys	6 th International Conference on Advancements in Polymeric Materials,	February , 20-22, 2015	IISc, Bangalore	International
6.	Nanostructured Heusler Ni ₅₀ Mn _{25+x} Sn _{25-x} (7≤x≤12) alloys a potential magnetic coolant with structural magnetic transitions	99 th Indian Science Congress	Jan. 3-7, 2012	KIIT, Bhubaneswar, India	National

7.	Giant Hall resistivity at low magnetic fields in nanocrystalline $\text{Ni}_{50}\text{Mn}_{32}\text{Sn}_{18}$ Heusler alloy,	56th DAE-Solid State Physics Symposium	Dec. 19-23, 2011,	SRM University, Chennai, India	International
8.	Large adiabatic temperature change in magnetoelastic transition in nanocrystallites of Heusler $\text{Ni}_{50}\text{Mn}_{32}\text{Sn}_{18}$ alloy	International Conference on Advanced Materials	Dec. 12-16, 2011,	PSG College of Technology, Coimbatore, India	International
9.	Coexistence of martensite and austenite states in a Heusler $\text{Ni}_{39+x}\text{Mn}_{50}\text{Sn}_{11-x}$ ($x \leq 2$) alloy of nanolaminates	International Conference on Advances in Materials and Materials Processing	Dec. 9-11, 2011	IIT Kharagpur, West Bengal, India	International
10.	Irreversible caloric transitions in Heusler Ni-Mn-Sn alloys of granular nanostructure	International Conference on Advanced Nanomaterials and Nanotechnology	Dec. 8-10, 2011,	at IIT Guwahati, Assam, India	International
11.	Effect of residual local strains on functional properties in a granular nanostructure in Heusler $\text{Ni}_{39+x}\text{Mn}_{50}\text{Sn}_{11-x}$ ($x \leq 2$) alloys	International Conference on Theoretical and Applied physics	Dec. 1-2, 2011,	IIT Kharagpur, West Bengal, India	International
12.	Effect of crystallite size on Vickers microhardness in nanostructured Heusler $\text{Ni}_{39+x}\text{Mn}_{50}\text{Sn}_{11-x}$ ($x \leq 2$) alloys	International Conference on Nanoscience, Engineering, and Technology	Nov. 28-30, 2011	Sathyabama University, Chennai, India	International
13.	Magnetic field dependence of martensite transition and magnetocalory in	National Conference cum Workshop on Recent Developments in Engineering Materials	May 12-14, 2011	Birla Institute of Technology, Mesra, Ranchi, India)	National

	Heusler $\text{Ni}_{50}\text{Mn}_{32}\text{Sn}_{18}$ alloy				
14.	Heusler $\text{Ni}_{50}\text{Mn}_{32}\text{Sn}_{18}$ alloy; a potential magnetic sensing material,	National Conference on Sensors & Actuators: Science to Technology	March 11–12, 2011,	CGCRI, Kolkata, West Bengal, India	National
15.	Successive phase transitions and inverse magnetocalory in $\text{Ni}_{41-x}\text{Mn}_{50}\text{Sn}_{9+x}$ Heusler alloys,	National Conference on Magnetic Materials and Applications	Jan. 24-25, 2011	S. N. Bose National Centre for Basic Sciences, Kolkata, India	National
16.	Ferromagnetism in austenite and martensite states in a new $\text{Ni}_{40.5}\text{Mn}_{50}\text{Sn}_{9.5}$ Heusler alloy of nanocrystallites,	International Symposium on Materials Chemistry	Dec. 7-11, 2010	Bhabha Atomic Research Centre, Mumbai, India	International
17.	Magnetoresistance in Ni-Mn-Sn nanocrystalline Heusler alloys,	International Conference on Fundamental and Applications of Nanoscience and Technology	Dec. 9-11, 2010pp.154	Jadhavpur University, Kolkata, West Bengal, India	International
18.	Anomalous electrical and magnetotransport properties in Ni-Mn-Sn Heusler alloys,	International Conference on Multifunctional Materials	Dec. 6-9, 2010	Department of Physics, Banaras Hindu University, Utter Pradesh, India	International
19.	Heusler $\text{Ni}_{50}\text{Mn}_{50-x}\text{Sn}_x$ alloys a possible multiferroic material,	National Seminar on Ferroelectrics and Dielectrics-XVI.	Dec. 2-4, 2010,	Guru Ghasidas University, Bilaspur, Chattisgarh, India	National
20.	Magnetoresistance in ferromagnetic Ni-Mn-In Heusler alloys”	International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences	Nov. 18-19, 2010,	SIT Tumakur, Karnataka	International

21.	Martensite transformation in $\text{Ni}_{40.5}\text{Mn}_{50}\text{Sn}_{9.5}$ nanocrystallites,	National Metallurgists' Day-Annual Technical Meeting	Nov. 14-16, 2010	Indian Institute of Science, Bangalore, India	National
22.	Anomalous change in electrical resistivity in martensite to austenite transition in Ni_2MnSn nanocrystallites of Heusler alloys	International Conference on Nanomaterials	Apr. 27-29, 2010,	Mahatma Gandhi University, Kottayam, Kerala, India	International