

**2014 International Conference on
Advanced and Agile Manufacturing Systems
(ICAM-2014)
May 28-30, 2014**



Oakland University, 2200 N. Squirrel Road, Rochester, MI 48309, USA
The conference web site is located at: www.oakland.edu/secs/icam2014

Current version is dated 5-27-2014

Wednesday, May 28, 2014

There will be three Workshops (free for all registrants)

location:
Dodge Hall, Room 201, Oakland University

1:00 PM	3:00 PM	Registration
2:00 PM	3:00 PM	
		Suren Dwivedi: Lean and Six sigma introduction, applications in Product Development
3:00 PM	4:00 PM	Biren Prasad: Electronic integrated Product and Process development (e-IPPD)
4:00 PM	5:00 PM	Hari Yogeshwar: Self-Paced learning- Advanced Mechanical design with computers
6:30 PM		ISPE executive committee meeting

Thursday, May 29, 2014

All technical sessions will have 3 or 4 parallel sessions (Each paper gets 20 minutes)

location:
Dodge Hall, Room 200 TO 203, Oakland University

8:30 AM	9:00 AM	Registration & Coffee/Snacks
9:00 AM	9:15 AM	Introduction by Subra Ganesan
		Inauguration by Dean Louay Chamra, SECS, Oakland University and by Dr. Dorothy Nelson, VP Research, Oakland University.
9:15 AM	9:45 AM	Keynote 1 – Eric Sheffler, Managing Director, MEDC, Michigan Econ Deve.
9:50 AM	10:20 AM	Keynote 2 - Dr. Phares Noel, President, Diversified Engineering Concepts, LLC.
10:20 AM	10:40 AM	Coffee Break
10:40 AM	11:10 AM	Keynote 3 - Dr. Michael Sobolewski
11:10 AM	11:40 AM	Keynote 4. Dr. Suren Dwivedi, ULL
11:40 AM	12:15 PM	Keynote 5 – Dr. Kai Yang, WSU
12:15 PM	1:00 PM	Lunch Break- Boxed Lunches and Networking time
1:00 PM	2:30 PM	Technical presentation – 3 or 4 parallel sessions- 12 to 16 papers
2:30 PM	3:00 PM	Tea/Coffee/snack
3:00 PM	4:30 PM	Technical sessions – 3 or 4 parallel sessions – 12 to 16 papers
6: 00 PM	8:00 PM	BANQUET AT RANGOLI RESTAURANT

Friday, May 30, 2014location:
Dodge Hall, Room 200 TO 203,

9:00 AM	9:30 AM	Keynote by Dr. Mukundan Gopalan, Chrysler
9:30 AM	10:00 AM	Keynote by Dr.Biren Prasad
10:00 AM	10:30 AM	Keynote by Satyendra Rana
10:30 AM	11:00 AM	Keynote by Dr Satwant Kaur
11:00 AM	11:30 AM	Keynote by Dr. Hans Raj Kandikonda
11:30 AM	12:00 PM	Keynote by Shyam Maheswari
12:00 PM	1:00 PM	Keynote by Ashok Prajapati
1:00 PM	1:30 PM	Lunch and Valedictory session
1:30 PM	2:30 PM	Technical session – 3 or 4 parallel sessions - 12 to 16 papers
2:30 PM	4:00 PM	Visit to FAJRI- Fastening and Joining research center, Oakland University

Suggested Hotel: (There is a list in the conference web site)

Crowne Plaza Auburn Hills, 1500 Opdyke Road, Auburn Hills, MI 48326. (Around \$125 with breakfast)
Or Extended Stay America, 3315 University Drive, Auburn Hills, MI 48326. Ph: 248 340 8888 (around \$70)

DETAILED TECHNICAL SESSION SCHEDULE, ICAM 2014

Version on 5-26-2014

Technical Session TS1 29th May, 1:30 pm to 3 pm Room 1-- Dodge Hall 200. Session Chair: Dr. Biren Prasad

Paper Number	Paper Title
#14	Glenn Meinhardt and Sankar Sengupta. Optimization of Axle NVH Performance Using the Particle Swarm Optimization Method
#13	Glenn Meinhardt and Sankar Sengupta. Optimization of Axle NVH Performance Using the Cross Entropy Method
#15	Glenn Meinhardt and Sankar Sengupta. Optimization of Axle NVH Performance Using a Genetic Algorithm
#16	Pravin M. Kulkarni , Dhirendra Rana , Fisseha Legesse , Sajan Kapil and K. P. Karunakaran . Additive Manufacturing of Directionally Heat Conductive Objects

Technical Session TS1 29th May, 1:30 pm to 3 pm Room 2-- Dodge Hall 201. Session Chair: Dr. Hans Raj

11	Ankit Sahai , Shanti S Sharma, Rahul Swarup Sharma, K Hansraj and Suren N Dwivedi . An investigation on the deformation of Al alloy during integrated Extrusion and ECAP
55	Suren Dwivedi, Varun Kumar Pyata, EDUCATIONAL ENHANCEMENT AND ATTRACTING STUDENTS TO STEM CAREER IN SHIPBUILDING AND MARINE INDUSTRY
24	Priyank Srivastava, Dinesh Khanduja and V.P Agarwal. MODELING OF AGILE MANUFACTURING SYSTEM
28	Hemant Bohra, Sam N. Ramrattan, Margaret K. Joyce, Paul D. Fleming and Pavel Ikononov. New Light Cured Media for use with Cast Prototypes

Technical Session TS1 29th May, 1:30 pm to 3 pm Room 3-- Dodge Hall 203 , Session Chair: Michael Sobolewski

29	Makan Taghavi Dilamani. A short review on Crystal Clear methodology and its advantages over the scrum, the popular agile software process model.
5	Mohammed Iqbal and Aravamudan Gopal. Automated Quality Inspection of Citrus Fruits – A Review
9	Dr. Rajat Setia, Prof. K. Hans Raj and Prof. Suren N. Dwivedi. Comparison of ANN and Statistical Regression Models for Prediction of Average Equivalent Strain in Equal Channel Angular Pressing

Technical Sessioon TS2 May 29th 3:30 to 5 PM-- Room 1- Dodge Hall 200, Session Chair: Suren Dwivedi

20	S K Sharma, Anubha Rautela and Rajnish Kumar. Improving the Issues in Procurement Process of Manufacturer
22	Rajiv Kumar Upadhyay, Ajay Bangar, Pawan Kumar Singh and Ashish Shastri. Enhancing the leanness of supply chain by integrated Fuzzy-QFD approach
17	Dhirendra Rana , Pravin M. Kulkarni , K.P. Karunakaran and Asim Tewari . In-Situ Property Improvements Using A CNC Integrated Pneumatic Hammer

18 Sushil Kumar Sharma, Shaarabh Muraka, Rishi Gupta and Hari Priya Choudhury. A Review on Measurement of Agility in Manufacturing System

Technical Session TS2 May 29th 3:30 to 5 PM-- Room 2-- Dodge Hall 201, Session Chair: Phares Noel

27 Jan-Hinrich Kämper, Arne Stasch and Axel Hahn. A fully-automated manufacturing environment realized through a flexible in house logistic system with smart transportation infrastructure

19 R S S Prasanth, Bhuvnesh Singhal, Pritam Singh and K Hans Raj. A comprehensive review on modeling and optimization of friction stir welding

41 Seyed Mirmiran. Need for an Advanced Asset Management System

36 Brandon J. Voelker¹, Muralidhar K. Ghantasala¹, Paul V. Engelmann² and Jeff Wheeler³, Manufacturing and Electroplating of Nanoengineered Polymers

Technical Session TS2 May 29th 3:30 to 5 PM-- Room 3-- Dodge Hall 203, Session Chair: Dr. Kai Yang

31 Pavel Ikononov and Jorge Rodriguez. 3D Metal Printing/Machining

32 Pavel Ikononov, Azem Yahamed and Dan Fleming. Application of 3d Printing for Human Bone Replacement

33 Pavel Ikononov, Suren Dwivedi and Alamgir Choudhury. Recognition of Moving Objects Using Sensors System for Human/Robot Teamwork

34 Pavel Ikononov and Muralidha Ghantasala. Analyze and Determine the Forces Associated with the Nanoparticle Movement

Technical Session TS2 May 29th 3:30 to 5 PM-- Room 4-- Dodge Hall 202, Session Chair: Dr. Biren Prasad

56 Shreyas Harish and Thirumalesh H.S. Design and Implementation of an Unmanned Ground Vehicle

26 Ashidsha Jaleel, Rajendran T K and Lijohn P George. Cloud Manufacturing: Intelligent Manufacturing with Cloud Computing

58 Jorge Rodriguez, Charles Crouch, Joseph Demeter, Brian Guenther and Leah Vaneeuwen. Mold Design for Injection Molding Using Additive Manufacturing

59 Suren N Dwivedi. Project Based Learning for STEM (Science, Technology, Engineering, Mathematics) Education

Technical Session TS3 May 30th 1:00 to 2:30 PM -- Room 1-- Dodge Hall 200, Session Chair: Dr. Hans Raj

35 Gaurav Agarwal, Abhishek Agarwal and Shubham Agarwal. BIPV: Integration of Photovoltaic with the Construction to achieve the concept of Agility

K Mharaj Kumari, Aerosol emissions from Industry and their affect on helath and climate

45 Khalid Mirza, Sai Prasanna, Michael Truitt and Hudhaifa Jasim. Intuitive 3D-Vision Based Wand for Robot Tool Path Teaching

Technical Session TS3 May 30th 1:00 to 2:30 PM -- Room 2- Dodge Hall 201, Session Chair: Dr. Ashok Prajapati

54 Tyler Bayne¹, Spencer Hoin¹, Dr. Pnina Ari-Gur¹, Dr. Marwa Hassan², Mr. Peter Thannhauser¹, Dr. Roman Rabiej¹, Dr. Pavel Ikononov¹, Mr. Jeff Johnston³, and Dr. Dan Litynski, Virtual Reality 3D Simulations of Concrete and Asphalt Laboratories

30 [Pnina Ari-Gur](#), Andreas Erbis, Shubram Subramanyam, Ashkan Razania, Andreas Quainoo and Sven Vogel. Formability and Crystallographic Texture in Novel Magnesium Alloys

Technical Session TS3 May 30th 1:00 to 2:30 PM -- Room 3-- Dodge Hall 203, Session Chair: Dr. Biren Prasad

48 Mohammad Komaki, Shaya Sheik, Behnam Malakooti, Ruled Based Approach for Scheduling Flow-shop and Job-shop Problems

49 Mohammad Komaki, Shaya Sheikh and Behnam Malakooti. Multi-Objective Scheduling Using Rule Based Approach

50 Mohammad Komaki, Shaya Sheikh, Behnam Malakooti, Rule Based Layout Planning and its multiple objectives

51 Behnam Malakooti. A synopsis of multiplicative Z-Utility Theory for solving risk problems

Technical Session TS3 May 30th 1:00 to 2:30 PM -- Room 4-- Dodge Hall 202, Session Chair: Dr. Subra Ganesan

7 Pankaj Sharma, Ajai Jain, Performance of dispatching rules in a stochastic dynamic job shop manufacturing system with sequence-dependent setup times

23 Puneet Mangla , Ashish Agarwal 2, Pulak M Pandey , Subrata Das, A Study of Factors Related to Supply Chain Strategy (SCS)