


Our Objectives and Activities
The main objective of AMM is to contribute to mechanical design at all levels starting from academic research to industrial initiatives, thereby enhancing the quality and reliability of indigenous machines. With this in view, AMM organises the International \& National Conference on Machines and Mechanisms, iNaCoMM, and the workshops on Industrial Problems on Machines and Mechanisms, IPRoMM regularly.

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## Message from the Editor-in-Chief

Publication of the July 2017 issue of the Bulletin of the Association for Machines and Mechanisms (AMM) is delayed due to some unavoidable circumstances in which the Editor-in-Chief has much been engrossed. For this, the Editor-in-Chief expresses his apology to the readers of the Bulletin and to the AMM community.

Volume 9, No. 3, July 2017 issue Bulletin of the AMM is now ready for publication. The Editor-in-Chief could not get much response from Dr. Ranjit Kumar Barai, the Zonal Vice President (East) to co-edit this issue, may be due to his very busy schedule within India and abroad.

In the column, Member in the News, the selection of Dr. Madhusudan Raghavan for the nomination of the prestigious SAE International Fellow is included. It is indeed a great achievement of Dr. Raghavan. AMM community whole heartedly congratulates him !!

Announcements of different events being organized around the world are there in this issue of the bulletin. iNaCoMM, the flagship event of the AMM, is being organised in this year 2017 by Bhaba Atomic Research Centre on December 13-15 2017 in Mumbai. This is the $3^{\text {rd }}$ International and $18^{\text {th }}$ National Conference on Machines and Mechanisms. There will also be a Student Mechanism Design Contest during this event.

Dr. G. Sarvana Kumar, Secretary AMM, and others are thanked for extending the background support in publishing this issue.

AMM members and others are invited to contribute articles and send the same to the editorial team for October 2017 issue. Constructive suggestions, comments towards improving the quality of the Bulletin of the AMM are welcome.

Hope for the best Festival Greetings !

## About the Association of Machines and Mechanisms (AMM)

AMM headquarters are currently located at the Department of Engineering Design, IIT Madras. A new set of office bearers have taken charge of the affairs of AMM. AMM invites both individual and corporate membership from Indian academia, research organizations and industry. Membership benefits and other information about AMM are available at www.ammindia.org. The body of Zonal Vice Presidents (ZVPs) is active over the past several years with representations from the four corners of the country. They are playing the role of nodal agencies so as to decentralise the AMM official activities and to organise workshops under the aegis of AMM to popularise the mechanism science in their respective regions. They also form the editorial team of this news bulletin. AMM invites contributory articles from its members and others working in the various fields of mechanisms science for this quarterly news bulletin. Interested people can contact the editorial team.

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## Meaning of the word, 'Teacher', is one who is :

T- Thoughtful
E- Energetic
A- Active
C- Creative
H- Honest
E- Efficient
R- Responsible

# Dr. Madhusudan Raghavan Named SAE International Fellow 



WARRENDALE, Pa. (July 5, 2017) - SAE International has announced that Dr. Madhusudan Raghavan was elected as a 2016-17 SAE Fellow. He was one of 22 fellow inductees recognized during ceremonies at WCX 17: SAE World Congress Experience.

Dr. Raghavan was recognized as an SAE Fellow for his expertise and achievements, including being the co-inventor of GM's 6 -speed front wheel drive transmission and GM's 8-speed rear wheel drive transmission. Featured on popular GM vehicles, the designs have achieved significant performance and fuel economy improvements over prior designs. Raghavan also led the creation of GM R\&D's electrified transmission portfolio, receiving more than 100 patents in this area. During the course of this work, Dr. Raghavan created a novel mathematical tool known as the "Generalized Lever," which enables efficient numerical searches for optimal driveunit architectures.

Dr. Raghavan leads the Hybrid Architectures and Global Energy Systems groups at General Motors R\&D, conducting research on novel electrified propulsion architectures, waste heat recovery systems, biofuels and modeling tools.

He was awarded three Boss Kettering prizes at GM for his work on transmission powerflow creation, the John M. Campbell Award for work on the general Stewart Platform analysis problem, and two Charles McCuen Awards for his work on suspension and steering system synthesis. Raghavan has co-authored five book chapters, 17 journal papers, 30 conference papers, and 275 patents. He also is a Fellow of the American Society of Mechanical Engineers

Dr. Raghavan earned a bachelor's degree in mechanical engineering at the Indian Institute of Technology. He earned his master's and doctorate degrees in mechanical engineering from Stanford University. He also holds a master's in business from the University of Michigan.

SAE Fellow is the highest grade of membership bestowed by SAE International. It recognizes outstanding engineering, scientific and leadership accomplishments by an individual that have resulted in meaningful advances in automotive, aerospace,
and commercial vehicle technologies. The program, established in 1975, recognizes an average of 20 recipients worldwide for this honor each year.

SAE International (www.sae.org) is a global association committed to being the ultimate knowledge source for the engineering profession. By uniting over 127,000 engineers and technical experts, we drive knowledge and expertise across a broad spectrum of industries. We act on two priorities: encouraging a lifetime of learning for mobility engineering professionals and setting the standards for industry engineering. We strive for a better world through the work of our philanthropic SAE Foundation, including programs like A World in Motion® and the Collegiate Design Series ${ }^{\top \mathrm{M}}$.
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## Forthc oming Events



## AzC IFToMM INTERNATIONAL SYMPOSIUM ON MECHANISM AND MACHINE SCIENCE (ISMMS - 2017)

Baku, Azerbaijan, September 11-14, 2017

IFToMM


## Organized by

Azerbaijan Committee of International Federation for the Promotion of Mechanism and Machine Science (AzC IFToMM),
Azerbaijan Ministry of Education,
Azerbaijan Technical University (Department of Theory Mechanism and Machine, Mechanical Engineering Science Center),
Izmir Institute of Technology - Department of Mechanical Engineering

## In Coordination With

IFToMM - International Federation for Promotion of Mechanism and Machine Science
Azerbaijan National Academy of Aviation
Azerbaijan State University of Oil and Industry
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Alizade Rasim Ismayıl oqlu - Chair of Azerbaijan Committee of IFToMM (AzC IFToMM), Head of Theory Mechanism and Machines Department, Azerbaijan Technical University, Dr. Tech. Sc., Professor.

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## CALL FOR PAPERS

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Ziafet Kerimov (Azerbaijan)
Vuqar Mikailov (Azerbaijan)
Rafiq Jamalov (Azerbaijan)

## Aim

The aim of the ISMMS 2017 is to attract scholars, researchers, teachers, students, professionals and other groups interested in the promotion of science of mechanisms and machines, to submit their scientific work in our Symposium. The number of scientific works in the field of MMS grows in the world every year Potential speakers are invited to submit papers for oral, poster or the video-presentations about new research and theoretical contributions in mechanism and machine science area.

## Topics

Computational kinematics
Synthesis of mechanisms
Gear drives and transmissions
Dynamics of machinery
Reliability of machines
Tribology
Mechatronics
Manipulators and robots
Oil-field machines and mechanisms
Technological machines
Transport vehicles
Submission, presentation and publication
Authors are invited to submit a full paper of max. 8 pages through the submission system at the symposium website. The official languages of the Symposium are English, Azerbaijani and Russian. Each paper will be reviewed by the members of the Scientific Committee. All accepted articles will be published in the scientific journal Machine Science (ISSN 2227 -6912), and also in scientific proceeding of the Symposium with ISBN, and also with the modified version the selected papers will be published in scientific journals of IFToMM.

## Deadlines

Full Paper Submission $\quad$ - 01.02.2017
Acceptance of notification - 30.04 .2017
Final paper submission - 31.05.2017

## Registration

The registration fee includes the complete program of the symposium and the proceedings. Registration fees before 31.08.2017:
IFToMM Members $-200 \$$
Non IFToMM Members $\quad-250 \$$
Students/Accompanying $\quad-150 \$$
Venue
The Symposium will be held in the Azerbaijan Technical University, Baku.

## Accommodation

The Capital of Azerbaijan, Baku has several hotels of different categories. A list of hotels will be posted on the symposium website.

## Young Delegates Program (YDP)

$4-6$ young participants will be supported by
IFToMM. For details of YDP: http://iftomm.net/

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For obtaining any necessary information it is also possible to call by phone:
+994125389403 - Haciyeva Firengiz
+994508560009 - Huseynzade Elnur
Symposium Website:
http://ismms2017.aztu.edu.az/ismms2017/


The Lebanese Assaciation for the Advancement of Science


The congress will be held at the Palais des congrés, Dbayeh-Beirut, Lebanon, on October 17-19, 2017. The congress will be a section of the engineering Job fair organized by the Alumni of the faculty of engineering at the Lebanese university. It is an opportunity to share the ideas and research works between researchers, scholars, students and industrialists.

## TOPICS OF THE CONGRESS

Papers are welcome on different areas of the mechanism, machine, robotics and mechatronics sciences, mainly in:
$>$ Computational kinematics
$>$ Multi-body dynamics
$>$ Robotics
> Machine design
$>$ Innovation in engineering
$>$ Mechatronics
$>$ Automation
> Manufacturing
> Optimization
$>\mathrm{CNC}$
$>$ Smart linkages and control
> Biomedical engineering
> Vibrations

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Conference web: http://www.ulfg.ul.edu.lb/conferences/2/ICAMMRMS-2017
PRESENTATION AND PROCEEDINGS
The official languages are English and French. Registered participants will be Engineering Index (EI), ISBN numbered. All registered papers will be published online and in a book edited by SPRINGER MMS
PAPER SUBMISSION
All papers must be submitted submit a full length paper, 4 pages The abstracts are NOT acceptable. The format will follow the IFToMM template that is available in the congress webpage. Best Paper award will be given.

IMPORTANT DATES
May 1: Call for papers
August 4: Deadline for submission September 15: Notification for acceptance September 30: Final submission deadline October 17-19: Congress

KEYNOTE SPEAKER
Ahmed Chemori
Advanced Control of Complex Robotic Systems
REGISTRATION FEES
(Gala Dinner and two lunches included) receive one Digital Proceedings which will electronically on EDAS system, and they will be reviewed. Authors are requested to (minimum) to 6 pages (maximum). Papers can be submitted in English or in French.

| Delegate from IFTOMM MO | 250 USD |
| :--- | :--- |
| Delegate from non-IFTOMM MO | 300 USD |
| Member of LAAS or LU | 250 USD |
| Local Student (Gala excluded) | 100 USD |
| Accompanying person | 150 USD |

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OKLAFREICDPHONIE

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ORGANIZED BY
Faculty of engineering at the Lebanese University Lebanese Association for the Advancement of Sciences


## The 12th IFToMM International Symposium on Science of Mechanisms and Machines SYROM'2017

lasi, Romania, November 02-03, 2017
Organized by:


Romanian Association for the Science of Mechanisms and Machines - ARoTMM and
"Gheorghe Asachi" Technical University of lasi, Mechanical Engineering Faculty
With the support of:
International Federation for the Promotion of Mechanism and Machine Science IFToMM

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Alm
The alm of the symposium is to bring together researchers, scientists, industry experts and PhD students to provide a general forum for researchers, engineers and PhD students involved in the general area of mechanisms and machines, and their appilcations, to disseminate their latest research results and exchange vews on the future research directions of these nelds.
Topics
Ne are looking for original, high-quallty contributions on topics related to mechanlsms within aspects of theory. design, practice and applications in engineering, including but not Imited to:
Theoretical kinematics
Computational linematics

- Mechanism deslgn
- Experimental mechanics
- Mechanics of robots

Dynamics of machinery
Dynamics of multh-body systems

- Control issues of mechanical systems

Mechanlsms for blomechanics
Novel deslgns
Mechanical transmissions

- Unikages and manipulators
- Mcro-mechanisms
- Teaching methods
- Hstory of mechanism sclence

Industrial and non-Industrial appilications
submission, presentation and publleation
The offclal language of the symposium is Engltsh. Each paper will be revlewed, and the papers selected by the Sclentific Committee will be published in a book edited by Springer, Mechanisms and edited by Springer, Mechanisms and Machine science senies. Only papers with
at least one author as registered particlpant will be included into the conference volume. All submitted papers must be strictly prepared foliowing the publication guldellies. For detalled up-to-date information, please visil the SYROM2017 Iformation, please

Deadilines

| Full paper submission: | Aprll $15^{*}, 2017$ |
| :--- | ---: |
| Prov. accept. notincation: | June $1^{*}, 2017$ |
| Final paper submission: | July $10^{*}, 2017$ |
| Final accept notincation:- July $20^{*}, 2017$ |  |

Final paper submission: July $10^{*}, 2017$ FInal accept notincation: July $20^{\boldsymbol{*}}, 2017$


Reglatration
"Early Bird" Reqlstration (before Auqust $1^{\text {tt }}$ 2017
IFToMM Members 250
Non IFToMM Members $\quad 350 €$

Reovilar Realstration IFToMM Members
Non IFToMM Members
Students/Accompanying Persons
350 €

## Venue

The conference will be held at "Gheorghe Asachi" Technical University of lasl. lasil is the largest city in eastern Romanla, located In the historical region of Moldavia. lasi has tradionaly been one of the leading centres of Romanian social, cultural, academic and artistic life. Known as The Cuftural Capltal of Romanla, lasil is a symbol in Romanlan history. It is easlly accessible from countries by plane, traln or car (see website).
Accommodation
lasl provides accommodation in severa hotels of different categories. A list of hotels wil be avallable on the conference website.

Excuralon
Directly after the conference there will be an Excurslon day.

Further Information
This is the first call for papers intended to Inform about the alm, topics and importan dates of the sympostum. Detalled Information about venue, accommodation, soclal program and other topics will be pubilshed on the website.

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## Website

Attrollowewmectulasil misyrom2017


# iNaCoMM 2017 

December 13-15, 2017
www.inacomm2017.org
Objective:
One of the key objectives of the Association for Machines and Mechanisms (AMM) is to promote innovation among the students. A mechanism design contest has been integral part of iNaCoMM since 2009. The purpose of the competition is to encourage the students to apply their theoretical knowledge in the domain of mechanisms and machines to solve problems relevant to the society.

## Eligibility:

Participation is restricted to individuals/groups of students (up to three members), who should be registered-as full-time students/research scholars/project staff in recognized institutes.

## Participation:

Participants are invited to submit proposals for design, construction and operation of mechanisms which are innovative and capable of solving a challenging design problem. The design problem may be chosen from a wide range of application domains - from agricultural and rural technology to automobile and aerospace engineering.

## Guidelines:



- Participants must submit a 2-page proposal outlining the design challenge and novelty/innovation of the proposed design. The proposals have to be submitted through email, with the subject line "Proposal for the Student Mechanism Design Contest" to the email address: inacomm2017@barc.gov.in
- The winner will be decided based on the extent of innovation, difficulty of the design challenge, effectiveness of the proposed solution towards solving the actual problem etc.
- In any matter related to the contest, the decision of the judges and/or the organisers will be final and binding.
- Finished prototypes are to be demonstrated during iNaCoMM 2017 (December 13 - December 15, 2017) before a panel of judges.
- The finalists will be provided with TA/DA.


## Important Dates




Also find link: http://iftomm2019.com/ and actual official IFToMM website: iftomm.net

# Third International Scientific Conference "Mechanics 2018" <br> (21-23 June 2018) <br> Georgian Technical University, Tbilisi, Georgia 

International Federation for the promotion the of machines and mechanisms science (IFToMM) and Georgian Committee of IFToMM with the assistance and support of Georgian Technical University, Institute of Machines Mechanics, Georgian Aviation University, Ak. Tsereteli State University, will held on June 21-23, 2018 in Tbilisi, Georgia, Third International Scientific Conference "Mechanics 2018".

The conference will be held in accordance with the Resolution of the International Scientific Conference "Mechanics 2014" (19-21 June 2014) that was organized under the patronage of IFToMM, Georgian Committee of IFToMM, Georgian Technical University and Institute of Machines Mechanics.

We are honored to invite you to participate in the conference.
Please see www.gsiftomm.org.ge
Contact Email ID: mechanics2018@gciftomm.org.ge

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http://www.functionbay.co.kr
RecurDyn, based on multi-body dynamics, is the CAE softwre for multi-physics solutions. Starting with just multi-body dynamics in 2004, RecurDyn became the first Multi-Flexible Body Dynamics (MFBD) to integrate multi-body dynamics and non-linear finite element methods into its numerical integrator, which opened the new paradigm in the field of multi-physics CAE.
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