Association for Machines and Mechanisms News Bulletin

Volume 9, No. 3

July 2017



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 3rd International and 18th 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!

Prof. Santanu Das Editor-in-Chief

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

--- Anonymous





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 drive-unit 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 SeriesTM.

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AzC IFToMM INTERNATIONAL SYMPOSIUM ON MECHANISM AND MACHINE SCIENCE (ISMMS – 2017) Baku, Azerbaijan, September 11-14, 2017





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 Tazil Vəliyev (Azerbaijan)
Theory Mechanism and Machine, Mechanical
Engineering Science Center),

Ali Sadikhov (Azerbaijan)

Izmir Institute of Technology – Department of Mechanical Engineering

In Coordination With

IFT oMM – International Federation for Promotion of Mechanism and Machine Science

Azerbaijan National Academy of Aviation Azerbaijan State University of Oil and Industry AzerSUN Holding

Az-Granata LLC

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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 - 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 - 250\$ Students/Accompanying - 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 papers in Russian to

firengiz haciyeva@hotmail.com For papers in English to

alizada_rasim@hotmail.com gokhankiper@iyte.edu.tr

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 first international congress for the advancement of mechanism, machine, robotics and mechatronics sciences, Beirut LEBANON, October 17 - 19, 2017.

Call For Paper

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
- > 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 receive one Digital Proceedings which 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 electronically on <u>EDAS</u> system, and they will be reviewed. Authors are requested to submit a full length paper, 4 pages (minimum) to 6 pages (maximum). Papers can be submitted in English or in French. 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)

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	150USD

SCIENTIFIC COMMITTEE

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

ORGANIZED BY











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 Iasi, Mechanical Engineering Faculty

With the support of:

International Federation for the Promotion of Mechanism and Machine Science –
IFTOMM



Conference Chairman loan DOROFTEI (Romania) Chair of ARoTMM

Conference Co-Chairmen Doina PISLA (Romania)

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Alm

The aim 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 applications, to disseminate their latest research results and exchange views on the future research directions of these fields.

Topics

We are looking for original, high-quality contributions on topics related to mechanisms within aspects of theory, design, practice and applications in engineering, including but not limited to:

- Theoretical kinematics
- Computational kinematics
- Mechanism design
- Experimental mechanics
- Mechanics of robots
- · Dynamics of machinery
- Dynamics of multi-body systems
 Control issues of mechanical systems
- Mechanisms for biomechanics
- Novel designs
- Mechanical transmissions
- Linkages and manipulators
- Micro-mechanisms
- Teaching methods
 History of mechanism science
- · Industrial and non-industrial applications

Submission, presentation and publication

The official language of the symposium is English. Each paper will be reviewed, and the papers selected by the Scientific Committee will be published in a book edited by Springer, Mechanisms and Machine Science series. Only papers with at least one author as registered participant will be included into the conference volume. All submitted papers must be strictly prepared following the publication guidelines. For detailed up-to-date information, please visit the SYROM/2017 conference website.

Deadlines

Full paper submission:	April 15th, 2017
Prov. accept. notification:	June 1st, 2017
Final paper submission:	July 10*, 2017
Final accept. notification:	July 20°, 2017

Registration

"Early Bird" Registration (before Au	igust 1st,
2017)	
IFToMM Members	250 €
Non IFToMM Members	350 €
Regular Registration	
IFToMM Members	350 €
Non IFToMM Members	450 €
Students/Accompanying Persons	150 €
Excursion, November 04 th , 2017	25 €

Venu

The conference will be held at "Gheorghe Asachi" Technical University of last. Iasi is the largest city in eastern Romania, located in the historical region of Moldavia. Iasi has traditionally been one of the leading centres of Romanian social, cultural, academic and artistic life. Known as The Cultural Capital of Romania, Iasi is a symbol in Romanian history. It is easily accessible from countries by plane, train or car (see website).

Accommodation

lasi provides accommodation in several hotels of different categories. A list of hotels will be available on the conference website.

Excursion

Directly after the conference there will be an Excursion day.

Further Information

This is the first call for papers intended to inform about the aim, topics and important dates of the symposium. Detailed information about venue, accommodation, social program and other topics will be published on the website.

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http://www.mec.tulasl.ro/svrom2017



SCOPE OF THE CONFERENCE ORGANIZING COMMITTEE The Division of Remote Handling & Robotics, BARC is organic 3st international and 18st National and Conferences on Machand Mechanisms during December 13-15, 2017 (BNaCOMM 2d at Anushakti Nagar, Bhabha Atomic Research Centre, Mumbai, In The scope of iNaCoMM 2017 are, but not limited to, the following topics: Patron: Director, BARC Theoretical and Computational Kinematics: Analysis, Synthesis, Design, Modelling and Simulation of Mecha Chairman & Convener: Dr. D. N. Badodkar, Associate Director, DM&AG, BARC iNaCoMM 2017 is the 18" National and 3" International conferences on Machines and Mechanisms organized under the aegis of AMM and IFFOMM. The conference aims at bringing together researchers, and experts and students, working on various aspects of design and analysis of machines, mechanisms and robotics, to deliberate through oral, poster and design contest presentations on recent, novel advances. Robotics: Roboti (furmatics and Robot) Dynamics, Serial and Patalliel manpulators, Maissing Robotics, Indicatrial Robotis, Service robots, Autonomobots, Collaborative and Cooperative Robotics, Distributed and Clouid Robotics, Heriterof Robotics, Maissing Robots and Harmandisk, Wheeled Mobile Robots, Autonomous Vehicles, Swirm and Rijving Robots, Condense Robotics, Septication of Robotics in Sylarian of Robotics (Application of Robotics) in Harder industry, Hazardous material handling. Decommissioning, Robot applications in Agriculture, Defense, Medical & Surgical Robotics, Wearable Robotics. Co-Convener : Dr. T. A. Dwarakanath, BARC Joint Organizing Secretaries: Dr. D. C. Kar, DRHR, BARC Shri P. V. Sarangadharan, DRHR, BARC Srin I. v. Sarangadharan, Devre, dwe. Shri Sanjeev Sharma, DePHR, BARC Prof. Guha, Professor, Mechanical Engg. IIT Mumbai, India Prof. Prasanna Gandhi, Mechanical Engg. IIT Mumbai, India iNaCoMM 2017 will feature er NALOMM 2017 will feature eminent researchers from India and oversians, as plenary speaker. Each day there will be plenary stulk by an eminent scientist followed by interesting morning and afternoon presentation/poster sessions on the topics of the conference. The NALOMM 2017 will also host Mechanism Design Contest for Students There will be recreational performances, music and dance rights are also planned from troops of Art & Culture Associations. Shri V. K. Shrivastava, DRHR, BARC Shri R. V. Sakrikar, DRHR, BARC Technical Committee: Smt. M, Tabassum, DRHR, BARC Shri Venkata P. P. K, CD, BARC Mechanisms & Devices: Mumbai and issurroundings are famous for world heritage monuments, art and cultural museums, beautiful hill stations, beaches and islands. Mumbai is a financial capital of india and the famous Bollywood, the indian Film indiants Film indiants Film indiants Film indiants of the indiants film indiants of the content of the content of the content of the content of the content of the content of the warder parts of food and entertainment. During December the climate in Mumbais is generally pleasant. The city is well connected to the various parts of the country by roadways, by railways and by airways. The important tourist places like aparts. Elfora, Goa and many west coast beaches, are easily reachable with multiple trainsport options. The international apport offers deer light to the various destinations of the world. We hope that besides the enriched scientific flavour of the Conference, you will also egoly the verdant campus of Anushakti Nagar during your stay. Dr. G. Bhutani, DRHR, BARC Shri S. K. Sinha, DRHR, BARC Shri D. C. Biswas, DRHR, BARC Shri H. K. Swain, DRHR, BARC Design & Manufacture: Origami-Based Engineering Design, Image and 3D-Print based Modeling and Shri Valbhav Dave, DRHR, BARC Shri S. S. Saini, DRHR, BARC Smt. Namita Singh, DRHR, BARC Dynamics of Machinery: Shri Abhishek Jaju, DRHR, BARC Shri Ushnish Sarkar, DRHR, BARC Shri Teja Swaroop, DRHR, BARC Shri Kamal Sharma, DRHR, BARC BEST PAPER AWARDS Shri Jagadish Kota, DRHR, BARC Smt. Bimmi Bharadwaj, DRHR, BARC The Organizing Committee of the Conference extends its invitation to researchers working on the topics of the conference. www.inacomm2017.org www.inacomm2017.org

iNaCoMM 2017

December 13-15, 2017

www.inacomm2017.org

Objective:

Eligibility:

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.

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 **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

• 1st Prize: ₹10,000

· 2nd Prize: ₹ 6,000

• 3rd Prize: ₹4,000

Submission of Proposal

- 25th September, 2017

Result of 1st Round Elimination

- 10th October, 2017

Student Mechanism Design Contest

Submission of Detailed Design

- 10th November, 2017

All participants will be awarded with Certificates from AMM Result of 2nd Round Elimination

- 20th November, 2017

Demonstration by Finalist

- 13th-15th December, 2017

3rd International and 18th National Conference

Machines & Mechanisms





Division of Remote Handling & Robotics

Bhabha Atomic Research Centre Mumbai



www.iftonm2019.oom

Call for Paper

15th IFTOMM World Congress will be held in Krekow, Poland in June 30 - July 4, 2019. IFTOMM World Congress is held every 4 years and is the largest congress on mechanism and machine science. It will provide opportunity for researchers, scholars and students with interests in the theory and practice of mechanisms and machines for new ideas, charing experiences, and discussing future developments. We hereby would like to extend our sincers welcome to you and to ensure all of you a wonderful congress and a memorable visit during your stay in Krakow during 2019 IFToMM World Congress!

Sincerely yours Organizing Committee

TOPICS OF THE COMBRESS

Papers are welcome on the general areas of the theory and precibe of mechanic and mechanisms, but not limited, to the topics of the B-Tobilia Tachwical Committees and Permanent Commitment, remedy:

- Design und unblogg Dynamics of machinery Bitaries Great guard best mindens

- relation of terrelasi drabio wangy sprinters.

LOCAL ORGANIZENS COSIMITTEE

Prof. Towners Burnton Pref. States Derval: - Samuela Pref. Spracy Pulphs - Virodow Pref. Jonato Prigade: - Virodow Pref. Mateur Empfel - Hallow Pref. Mateur Gassenke: - Wincian Pref. Matel Gussenke: - Wincian Pref. Matel Gussenke: - Wincian Prof. Brayester School - Hrescher Prof. Brayester Below - Hrescher Prof. Holester Uhl - Review Prof. Manut Welfres - Wester Prof. Manut Welfres - Wester Prof. Chanty Zhill rold - Warner

PERSONATION AND PROGRESSION

The official language is English. Registered participants will resolve one Digital Proceedings.

PAPER BURMIRBION

All papers must be submitted electronically and they will be reviewed. Authors are requested to authors and langth paper, 4 pages (minimum) to 10 pages (maximum). The abstracts are NOT acceptable. The format will follow the E-Tokiki template that is available in the congress webpage

IMPORTANT DATES

Start registration
Paper aubmission deadline
Notification on final paper Acceptance
Dead line for paying fee of presenting authors
First full paper automission
IFT old id Congress

SOR SERES LOCATION

The conference will take place in the Auditorium hitedmure of the Jagditorium University Kostow last the capital of Naiegotales province located on the south of Poland, large seedered and outrail centre and is one of the most visited dillias in Poland. There are numerous In Federal Intersuments, good hotels, restaurance and recreational opportunities it is not a simple task in describe the single sixtemater of Kralsow to those who still have not of Knistow to those who still free not had the apportunity to visit this city. This uniqueness is primarily due to the sare outeral heritage embodied within the city valis. Here, in the year 1000, a Sourman Catholio behoprio was founded. Here, the residential royal castle take commutated on the Wester it it. becoming the left for the occanations was the supplied of bings, as Knistow was the supplied of blangs from the 11th to 17th century. from the 17th to 17th century.

AGGOM BRATION

which the score rate and special rate in different, standards with the score rate ranging from EUPO IIO to EURO TIIO will be fisted on the FTCAMA 2019 website.

TRAVEL IMPORMATION

Knakow aliport is located about 10 km from the city centre and has a number of direct flight connections with analor Baropean aliporto (jihunkh, Frankhut, Vienna, Berlin, Parka, Brussalla, London, and olihans). International aliport in Knakow (10 km from the olig) http://www.innienanienas. http://www.tunecovaliport.pl/eri International airport in Kalovice (IIC ion from the city) http://www.tariowioseliport.com

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

Third International Scientific Conference "Mechanics 2018" (21-23 June 2018)

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.

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