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SCOPE OF THE NEWSLETTER
This Newsletter reports the most important facts and events of IFToMM activity during the year but with an eye to the future plans. Information is collected mainly from IFToMM bodies and its leadership. A special attention list is devoted to forthcoming conference as forum for meetings among the community and promotion of MMS.

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EDITORIAL BOARD FOR 2014 ISSUE
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Veniamin I. Gol’dfarb, Chair of PC Communications & Publications & Archiving, IFToMM Vice President
Jean Pierre Merlet, EC member
Teresa Zielinska, Secretary General

MESSAGE OF THE IFTOMM PRESIDENT
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NEWS FROM EXECUTIVE COUNCIL
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The 47th IFToMM Executive Council Annual Meeting, was held in Portugal in Guimarães (September 14th-15th, 2014). It was hosted by Prof. Paulo Flores from Department of Mechanical Engineering, Center for Mechanical and Materials Technologies, School of Engineering - University of Minho. Meeting was scheduled directly before EUCOMES 2014 - European Conference on Mechanism Science.

Group photos taken during EC meeting
The meeting was attended by 18 persons in that by 8 members of Executive Council. Current year of EC activities had been marked by further improvements of the IFToMM web page, this year we started the electronic submission of
the MO chair reports besides of introduced in previous year electronic submission of TC/PC reports. The modified forms for IFToMM affiliated journal report and for MO chair report were introduced. Proposed during 2012 EC Annual Meeting changes in TC’s/PC’s membership rules were approved in an email voting by the chairs of Members Organizations and are in effect. Final approval of revised constitution waits on the vote of the coming General Assembly. The new statements say: “Each Member Organization can execute an equal and single vote by its members of a Permanent Commission or a Technical Committee at the meetings or the E-mail ballots. The simple majority of votes of the members from a Member Organization is the vote of the Member Organization. If there is no simple majority, the vote is considered an abstention. No proxy is allowed for.” It must be emphasized that following the above change the existing membership limit for maximum two persons from each Member Organization in each TC/PC was deleted. Analyzing the reports submitted by TC/PC chairs the Executive Council concluded that some set of Technical Committees and Permanent Commissions is very active, however still there are a few which must be encouraged to be more vigorous. With the great satisfaction it was noticed that newly nominated TC/PC chairs are very motivated to plan and develop new activities, several new Chairs attended the EC Annual Meeting. Noticed in 2012 and 2013 trend with increase in the amount of IFToMM patroned/sponsored conferences was kept in 2014. The IFToMM awards are the tokens of appreciation given to the persons with outstanding service and contribution to the IFToMM development. In year 2014 dedicated service awards were given to Professor Aleksander Golovin, Professor Carlos Lopez Cajun and to Professor Joe Rooney, Professor Aleksander Golovin passed few months before the award ceremony. Award was delivered to his Family during the banquet of IFToMM RoManSy Symposium in Moscov in June 2014. In the same event the representatives of EC gave the award diploma to Professor Joe Rooney. The EC Annual Meeting 2014 approved the award of merit for Prof. Faydor F. Litvin.

The coming soon IFToMM World Congress in 2015 in Taipei, Taiwan, will be a very important event to the IFToMM research community. It is combined with IFToMM General Assembly (GA) - we hope that all chairs of Members Organizations will attend the Congress and GA where, according to the IFToMM Constitution, the new Executive Council will be elected.

NEWS FROM MEMBER ORGANIZATIONS
[A total of 35 reports]

MO ARMENIA
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REPORT OF ACTIVITY  from 1 November 2013 to 1 November 2014

1- DISCUSSION OF RECENT ACTIVITIES
• Four MMS research projects have been implemented in the reported period supported by the grants of the State Science Committee (SCS) of Armenia.
  1) Development of the theory and computational methods of approximational synthesis for the parallel manipulators with limited mobility (Project leader: Prof. Yuri Sargsyan),
  2) Developing engineering methods for investigation of the processes of sintered blank treatment by pressure and study of corresponding stress-strain states (Project leader: Prof. Gevork Petrosyan),
  3) Development of new technical solutions and design methodology for multipurpose microrobots and medical robots of hybrid structure (research laboratory “Robotics”, director: Prof. Yuri Sargsyan),
  4) Developing and creating polymer-based friction materials and machine parts from local raw materials and minerals (research laboratory “Tribology”, director: Prof. Norik Meliksetyan)
• Three Ph.D. dissertations have been defended in MMS related areas.
• Two issues of Proceedings of SEUA, series “Mechanics, machine science, machine-building” have been published.

2- MEETINGS AND VISITS
• Two meetings of the National Committee of IFToMM, Armenia have been organized in the reported period.
• Mutual visits and meetings of MMS researchers from INSA, Rennes, France and SEUA, Armenia have been implemented in frames of the scientific collaboration agreement between two institutions.

3-RESEARCH COLLABORATION AND EXCHANGES
• SNRS, France/SCS, Armenia research collaboration project “Development of new wearable walking assist devices with bodyweight support” (Armenian Project leader: Prof. Mikayel Harutyunyan). Mutual mobilities between project participants have been implemented, according to the Project work plan.

4- CONFERENCE EVENTS
• International Conference “Machine Building Technologies and Automation Equipment” Yerevan, Armenia (July, 07-12 July, 2014) with a special MMS section. IFToMM, Armenia has been among the co-organizers of the Conference.

5- MOST RELEVANT PUBLICATIONS (no more than 10)
• In the reported period over 30 articles have been published in different areas of MMS, mainly in reviewed journals of Armenian National Academy of Science, State Engineering University of Armenia and in Transactions of International and local Conferences.

6- FUTURE PLANNED ACTIVITIES
• Participation in the IFToMM 2015 World Congress, Oct. 25-30, Taipei, Taiwan. Two papers are prepared and submitted.
• Continuation of the Projects listed in Points 1 and 3, submission of new proposals.

7- OTHER RELEVANT INFORMATION
• SEUA offers a MMS oriented study program in Applied Mechanics at BE, ME and Doctoral levels.
• A specialized council of the State Attestation Committee of Armenia is acting at SEUA (Chairman: Prof. Yuri Sargsyan) for awarding degrees of Candidate of Science and Doctor of Science in Machine Science, Robotics, Machine Building Technologies areas.

MO AUSTRALIA
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REPORT OF ACTIVITY  from 19 November 2013 to 19 November 2014

1- DISCUSSION OF RECENT ACTIVITIES
The Australian National Committee for Mechanism and Machine Theory (ANCToMM) has been absorbed into a more broadly based committee titled the Australian National Committee for Mechanical and Engineering Science run under the auspices of the Australian Academy of Science. The committee meets on an annual basis and considers issues of general relevance to engineering science in Australia.

2- FUTURE PLANNED ACTIVITIES
Changes to the Australian organizational structure with relation to IFToMM and local research interests have seen a drop in IFToMM activities within Australia over the past 5 years. Reinvigoration of this area will depend fundamentally on local interest and engagement of Australian researchers. It is hoped that the 2015 World Congress will provide an opportunity for Australian Researchers working in the field to regroup. Interested parties attending the 2015 congress are encouraged to contact Professor Ross McAree at p.mcaree@uq.edu.au.

MO AUSTRIA
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1- FUTURE PLANNED ACTIVITIES
The German speaking MOs (Germany-Switzerland_Austria) are planning the first joint meeting in Dortmund on March 11th. (http://www.iftomm-dach.de/)
2- MEETINGS AND VISITS
V.A. Belyi Metal Polymer Research Institute of National Academy of Science of Belarus http://mpri.org.by/ (Prof. Victor Starzhinsky and Dr. Serge Shi’ko) took part as a joint arranger in 25th Working Meeting of IFToMM Permanent Commission for Standardization of Terminology on MMS which has been held in Saint-Petersburg, Russia, June 23-29, 2014 on the base of Saint-Petersburg National Research University of Information Technologies, Mechanics and Optics (Prof. Eugeni Shalobaev).

The following items have been particularly considered:
1) Presentation of Dr. Shi’ko with recommendation of Belarusian Committee of IFToMM to include him in the Staff of PC as an observer. Recommendation was supported by former PC Chair Prof. A.J. Klein-Breteler and PC member Prof. V.E. Starzhinsky.
2) The propositions for activity of Subcommissions “Biomechanics”, “Gearing”, “Mechatronics” and “Transportation” have been discussed.
3) Situation with terminology on Chapter 15 “Quality Factors of Machines and Their Components” and Chapter 16 “Compliant Mechanisms” has been discussed in corresponding Subcommissions “Quality Factors” and “Compliant Mechanisms”.
4) The 8 scientific papers were presented on scientific colloquium. They are placed on the website \https://sites.google.com/site/25thworkingmeetingofifthommpca/-draft-minutes-of-the-25th-working-meeting> and will be published in the Proceedings of the Scientific Seminar “Terminology for the Mechanism and Machine Science”.

3- RESEARCH COLLABORATION AND EXCHANGES
The joint project of scientists from the Joint Institute of Mechanical Engineering of National Academy of Sciences of Belarus (the project research supervisor Prof. V.Algin) and Institute of Machines Science named after A.A.Blagonravov of the Russian Academy of Sciences (the project research supervisor Associate Member of the Russian Academy of Sciences N.Makhutov) supported by Belarusian and Russian funds of basic research in 2012-2014, is finished. Some project results are presented at the paper: Makhtov N.A., Zatsarinny V.V., Algin V.B., Ishin N.N. Technogenic risk, reliability and diagnostics of technical systems: approaches, models, methods/Mechanics of machines, mechanisms and materials, 2012, No 3 (20)—4(21), pp. 67—85. They are as follows. An interpenetrating character of concepts «reliability», «safety», and «risk» in the general structure of the concepts defining quality of technical system is
demonstrated. Problems of categorization and estimation of technogenic risks of objects of the technical regulation, dangerous industrial objects, and critically and strategically important objects are considered. Methods for calculation of real machines reliability, which are based on modelling the failures (limiting states) of machine as a multilevel system and reproduction of its components dependent behaviours, are presented. Classification and models of life calculations, methodology of an estimation of technical state and monitoring vibration for transmission units of mobile machines are resulted. Approaches to solving problems of reliability and safety of technical systems which are considered by experts of Institute of Machines Science named after A.A.Blagonravov of the Russian Academy of Sciences and Joint Institute of Mechanical Engineering of National Academy of Sciences of Belarus work are described (http://elibrary.ru/item.asp?id=20180570).

4- CONFERENCE EVENTS
The International scientific and technical conference "Innovations in Mechanical Engineering 2014" has been held from the 2nd-3rd October 2014 in Minsk as the main event in a field of TMM in Belarus. The Joint Institute of Mechanical Engineering of National Academy of Science of Belarus (NASB), which patronizes the Belarusian Committee of IFToMM, was a host of the Conference (http://oim.by/dfiles/000771_370005_programma_2014.pdf).

About 300 attendees from Belarus, Russia, Ukraine, Azerbaijan, Kazakhstan, Sweden and Iran took part at the Conference, and more than 100 reports have been presented. These reports will be published by the Joint Institute of Mechanical Engineering in the collection of proceedings "Actual Issues of Machines Science" at the end of 2014 (http://oim.by/ru/konferensia_2014).

5- MOST RELEVANT PUBLICATIONS

6- FUTURE PLANNED ACTIVITIES
Two main events next year are as follows:
1. The International Scientific and Technical Conference "Innovations in Mechanical Engineering 2015", October 2-3, 2015, Minsk, Belarus is planned as the main event in a field of TMM in Belarus. The Joint Institute of Mechanical Engineering of NASB, which patronizes the Belarusian Committee of IFToMM, will be a host of the Conference.

7- RELEVANT PHOTOS, FLYERS etc. record important events and Organization activities

MO BRAZIL
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REPORT OF ACTIVITY from January to November 2014

1- DISCUSSION OF RECENT ACTIVITIES
Activities on the field of MMS and IFToMM in Brazil have been done under patronage of the Brazilian Society of Mechanical Sciences and Engineering – ABCM. The Brazil IFToMM TC and PC representatives are ABCM members.

2- MEETINGS AND VISITS
The following scientific events had been organized on MMS:
Engineering School on Smart Structures – November 9-13

3- RESEARCH COLLABORATION AND EXCHANGES
Brazilian members of IFToMM TCs and PCs have taken part in several events and meetings during the period like the 9th IFToMM International Conference on Rotor
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REPORT OF ACTIVITY from November 14, 2013 to November 14, 2014

1- DISCUSSION OF RECENT ACTIVITIES
CCToMM enjoyed a productive year since the last MO Activity Short Report. There are four major items that will be summarized in this report. First, CCToMM has been incorporated as a Not-For-Profit Corporation in Canada since 1993. New laws governing such corporations have been enacted by Canadian Parliament requiring modification of the corporation By-Laws. Details regarding this will be described. Second, the Annual General Meeting (AGM) of MO members was held in Toronto, Canada on June 3, 2014. Details and outcomes of the AGM will be discussed. Thirdly, the annual CCToMM Symposium for Mechanisms, Machines, and Mechatronics (M³) was held at the University of Toronto June 1-4, 2014. Lastly, the 2015 CCToMM M³ is being planned, and will be held at Carleton University, in Ottawa, Canada, May 28-29, 2015.

2- MEETINGS AND VISITS
The 2014 CCToMM AGM was held at the University of Toronto on June 3, 2014. Twelve members were in attendance, along with the Executive Council (EC). Several significant issues were discussed. John Hayes communicated with Jean Zu (Chair, 2014 CSME International Congress) and Christine Wu (outgoing President, CSME) to request that the CCToMM be granted exclusive rights on all papers submitted to the Congress that are in the area of mechatronics. The opinion expressed by the CSME is that, in light of the memorandum of understanding (MOU) between the CSME and the CCToMM regarding profit sharing, this would unfairly bias conference participation in CCToMM’s favour. The request was denied. John Hayes contacted IFToMM to request that the 2015 CCToMM M³ Symposium be advertised as a forthcoming IFToMM-sponsored conference. The request was made with the support of Clément Gosselin (Member of the IFToMM Technical Committee on Computational Kinematics). Teresa Zielińska reported that IFToMM approved the sponsorship request.

It was reported that a total of 8 papers initially presented at the 2013 CCToMM M³ Symposium were recommended and forwarded for publication in a special issue of the Transactions of the Canadian Society for Mechanical Engineering. These papers have now been published in Volume 38 (Issue 2) of the Transactions. John Hayes mentioned a possible evolution of the administration of the CSME Transactions and its potential impact on the continued publication of special issues based on papers presented at the CCToMM M³ Symposia. Regardless, the Editor, Paul Zsombor-Murray, has already agreed to publish a special issue based on papers presented at the 2015 CCToMM M³ Symposium.

Juan Carretero presented his report (see attached). It was observed that the CCToMM finances are healthy and that initiatives aimed at spending accumulated capital should be considered for the future.

The CCToMM student representatives, Thomas Friedlaender and Joshua Pickard, reported on their outreach efforts to encourage the involvement in the CCToMM of undergraduate and graduate students across Canada. An updated CCToMM brochure was forwarded to a distribution list of Canadian universities.

It was reported that student feedback that had been received suggested difficulties in finding the appropriate links for membership registration within the CCToMM’s website. This issue has subsequently been fixed.

The student representatives also commented on issues related to e-mail communication with the CCToMM in the event that institutional e-mail service is not available (e.g., during labour disruptions). Suggested courses of action were proposed to circumvent this issue in the future.

3- CONFERENCE EVENTS
The 2014 CCToMM M³ was held as a special symposium at the 2014 Canadian Society for Mechanical Engineering (CSME) World Congress, June 1-4, 2014. Nine papers on mechanism and machine theory were presented in three sessions.

4- MOST RELEVANT PUBLICATIONS

5- FUTURE PLANNED ACTIVITIES
The 17th CCToMM Symposium for Mechanisms, Machines, and Mechatronics will be held at Carleton University, in Ottawa Canada, May 28-29, 2015. The two day symposium is sponsored by CCToMM, IFToMM, Carleton University, and the University of Ottawa. The call for papers is available at:
MO CHINA-TAIPEI
Prof. Der-Min Tsay, National Sun Yat-Sen University,
Email: dermin@mail.nsysu.edu.tw

REPORT OF ACTIVITY: from 1 November 2013 to 31 October 2014

1- DISCUSSION OF RECENT ACTIVITIES
On October 2nd, 2014, the 16th Taiwan Innovative Mechanism Design Competition sponsored by the Department of Industrial Technology of Ministry of Economic Affairs Taiwan was held at Cycling & Health Tech Industry R&D Center, Taichung, Taiwan with the Chinese Society of Mechanism and Machine Theory (CSMMT) for the final cycle. In the first cycle, 23 pieces were received for this competition, and 13 of these 23 works were recommended to the final cycle competition on October 2nd. Among the 13 mechanism designs, top three were selected, and they are to be awarded on November 14th, 2014 with the 2014 annual conference of CSMMT that is to be held at the National Chin-Yi University of Technology, Taichung, Taiwan.

2- MEETINGS AND VISITS
Including the General Chair, Prof. Shuo Hung CHANG, of the 2015 IFToMM World Congress and China-Taipei Chair, Prof. Der-Min TSAY, five members of the CSMMT attended CCMMS 2014 and the third IFToMM Asian Conference on Mechanism and Machine Science in Tianjin, China, during July 9-10, 2014. One of the purposes of this visit was to promote the 2015 IFToMM World Congress hosted in Taipei International Convention Center, during Oct. 25-30, 2015.

3- CONFERENCE EVENTS
The 2014 annual conference of CSMMT was held on November 14, 2014 at the National Chin-Yi University of Technology, Taichung, Taiwan. There were about 90 papers to be presented, and Prof. Hong-Sen YAN, the former China-Taipei MO Chair and now the Executive Vice President of the National Cheng Kung University, Tainan, Taiwan gave the keynote speech.

4- FUTURE PLANNED ACTIVITIES
One of the most important issues of CSMMT in 2014 is to prepare the 2015 IFToMM World Congress hosted in Taipei International Convention Center, during Oct. 25-30, 2015. The organizing committee, led by General Chair, Prof. Shuo-Hung CHANG, and General Co-Chair, Prof. Marco CECCARELLI, has organized the tentative programs for 2015 World Congress, such as the general assembly, EC and TC meeting, forums, special sessions, exhibition, tutorial, technical tour, young delegate program, accompany program and post tour. The messages of “call-for-paper” has been sent out through various means, approaching more than ten thousand individuals and related societies. The web page www.iftomm2015.tw is available to browse all necessary information of 2015 IFToMM World congress. Currently, on the website, the on-line paper submission is also ready for use.

MO CROATIA
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REPORT OF ACTIVITY from 20 November 2013 to 20 November 2014

1- DISCUSSION OF RECENT ACTIVITIES
The main activities in 2014 of Member Organization Croatia were monthly meetings held at Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, Croatia. Throughout the year, 10 meetings were held. Each meeting was accompanied with lectures related to MMS activities, and speakers were scientists from universities or experts from the industry.

2- MEETINGS AND VISITS
In October, Prof. Erno Keskinen from Tampere University of Technology, Finland visited our MO and held the lecture entitled “Machine Dynamics Research at the Tampere University of Technology”.

3- FUTURE PLANNED ACTIVITIES
Continuing with monthly meetings.

4 - RELEVANT PHOTOGRAPHS, FLYERS

Fig. The lecture of Prof. Erno Keskinen

MO THE CZECH REPUBLIC
Ing. Jaromír HORÁČEK DrSc.,
Institute of Thermomechanics, Academy of Sciences of the Czech Republic,
REPORT OF ACTIVITY from 1 November 2013 to 1 November 2014

1- DISCUSSION OF RECENT ACTIVITIES
In the year 2014, the Czech National Committee IFToMM had one regular session during the conference “Engineering Mechanics 2014” held in Svratka in May. Main topics were some personal changes in the members of this MO body and some new members’ nominations of the Czech researchers to the Technical Committees (TC). The problem is sometimes with a concrete realization of the proposed exchanges in TC due to administrative complications. A unified form, issued for example by the Executive Council, would be helpful specifying what it is really needed for the nomination of a person to be member or observer in TC. We think that the full name, address and email of the nominee should be enough and the others to leave on responsibility of the National committee. In addition, some suitable dates settled for this process could be announced to MOs.

2- CONFERENCE EVENTS
Organized under the auspices of the Czech National Committee IFToMM:
- “Dynamics of Machines 2014” was held in Prague from 4-5 February 2014 and organized by the Institute of Thermomechanics, Academy of Sciences of the Czech Republic, 38 participants/7 from abroad (the conference is organized every year).
- “Engineering Mechanics 2014” was held in Svratka from 12-15 May 2014 and organized by Institute of Thermomechanics, Academy of Sciences of the Czech Republic, 200 participants/60 from abroad presented 181 contributions from Biomechanics, Dynamics, Fluid Mechanics, Fracture Mechanics, History of Mechanics, Kinematics, Mechatronics, Reliability, Mechanics of Solids and Thermomechanics (the conference is organized every year).
- “Computational Mechanics 2014” organized by the University of West Bohemia in Pilsen is held in Spicak from 3-5 November 2014, 75 participants/10 from abroad (the conference is organized every year).
- “DYNAMESI 2014” - The 1st Colloquium Dynamics of Machines and Mechanical Systems with Interactions, Prague, November 25–26, 2014, Institute of Thermomechanics ASCR, v.v.i. (the new conference organized under the auspices of the Czech National Committee IFToMM, that will be organized regularly every year).

3- MOST RELEVANT PUBLICATIONS (no more than 10)

4- FUTURE PLANNED ACTIVITIES
Organizing the regular international conferences on topics from all field of Mechanics – see point 4.

MO FRANCE
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REPORT OF ACTIVITY for the year 2014

1- DISCUSSION OF RECENT ACTIVITIES
In the year 2014, the French MO of IFToMM started the preparations for the fourth edition of the IFTOMM international symposium on robotics and mechatronics (ISRM 2015) in Futuroscope-Poitiers, France. The website including the flyer of the conference is : http://isrm2015.sciencesconf.org/

2- MEETINGS AND VISITS
Moreover, the French MO of IFToMM has involved in the organization of the first Robotics Workshop : Trends and Challenges (http://robotworkshop.sciencesconf.org/) which took place in Marrakech. The aim of this workshop is to enable master and PhD students as well as Moroccan researchers from thematics linked to robotics to exchange with leading international experts present during the ISER 2014 organized in Marrakech and Essaouira (15-18 June 2014). Three scientific meetings under the “Pprime FORUM” dealing with issues linked to mechanism and machines theory were also organized by IFToMM MO France in November and December 2014. http://rpf2014.sciencesconf.org/

2- RELEVANT PHOTOGRAPHS, FLYERS
Figure 1: The photos taken at the scientific meeting with Prof. Y. Takeda (November 6, 2014) under the FORUM Pprime.

Figure 2: The photos taken at the scientific meeting (November 19, 2014) under the FORUM Pprime.

MO GERMANY
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REPORT OF ACTIVITY from May 2013 to April 2014

1- DISCUSSION OF RECENT ACTIVITIES
During the report period, the members of MO Germany have been very active in the IFToMM TCs and IFToMM’s conferences. In particular, intensified activities are reported for the PCs Communications, Publications and Archiving, Education, and History of History of Mechanism and Machine Science, as well as the TCs Terminology, Computational Kinematics, Gearing and Transmissions, Linkages and Mechanical Controls, Micromachines, Multibody Dynamics, Rotor Dynamics.

2- MEETINGS AND VISITS
Already since 2002, the IFToMM group Germany meets annually in a one-day event to discuss IFToMM-related matters such as IFToMM conferences and workshops but also commission and committee meetings. A list of the members of IFToMM Group Germany can be found in Annex A to this report.

In 2013, the meeting was organized by Prof. Tobias Ortmaier Institute of Mechatronics Systems, University of Hannover on April 4th, 2013. Prof. Ortmaier is a member of the TC Robots and Mechatronics and is a leading scientist in the areas of robotics and mechatronics in Germany (coming from Kuka).

German members of most of the TCs and PCs have actively taken part in the activities of the TCs and PCs conference events and meetings.

3- RESEARCH COLLABORATION AND EXCHANGES
- The national project DMG-lib about the preservation of knowledge and material in mechanism and machine science has been successfully extended to a European project with university partners from Italy, Spain, Romania, France and Germany where the individuals engaged in this project are all active within IFToMM especially PC History of TMM, PC Terminology, TC Computational Kinematics, TC Mechanical Transmission.
- The MO Germany member Prof. Schiehlen is very active in the Benchmark group of the TC Multibody Dynamics, which is progressing very well.

4- CONFERENCE EVENTS
Conferences organized or co-organized by members of the MO Germany in the report period are:
- The ECCOMAS Conference on Multibody Dynamics 2013 in Zagreb from July 1 to July 4, featuring 13 different sections with 7 section chairs and around 300 participants has been very successful.
- Getriebetechnisches Kolloquium was carried out under the umbrella of IFToMM.
- The Second Conference on Interdisciplinary Applications of Kinematics took place in Lima, Peru on September 9-11, 2013. The conference was again very successful with 41 participants from 10 countries. The proceedings are going to be published in 2014 within the IFToMM’s MMS Springer book series.

5- MOST RELEVANT PUBLICATIONS
- Proceedings of the 10th Kolloquium Getriebetecnik (Colloquium on Mechanism Theory) 5.2 Proceedings of the 2nd International Conference on Interdisciplinary Applications in Kinematics.
All other relevant publications by German MO members have been published in the corresponding IFToMM conference proceedings books and relevant journals.

6- FUTURE PLANNED ACTIVITIES
The members of MO Germany are planning as organizers or co-organizers the following future conferences:
- A IUTAM Symposium - Dynamical Analysis of Multibody Systems with Design Uncertainties will take place from June 10 to June 13, 2014 in Stuttgart, Germany.
- The 3rd Joint Conference of Multibody System Dynamics (IMSD) and the 7th Asian Conference on Multibody Dynamics (ACMD) will take place in Busan, Korea from June 29 to July 3, 2014.
• The German MO is planning to organize in 2015 a first joint German IFToMM MO workshop together with the Mechatronics conference of the German Associations for Mechanical (VDI) and Electrical (VDE) Engineers in Düsseldorf, Germany in 12/13 March 2015.
• “The Third Workshop on Mechanisms, Transmissions and Applications” will be realized in Aachen, Germany in 2015.
• A IUTAM Symposium on Nonlinear Vibrations will be organized in Darmstadt, Germany in 2015.

MO GEORGIA
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REPORT OF ACTIVITY from 20 November 2013 to 20 October 2014

1- DISCUSSION OF RECENT ACTIVITIES
Discussions on development of theory of machines and mechanisms in Georgia was held at 10 October 2014. Were considered problems of sciences of machines and mechanisms and role of Georgian scholars in its solution. At November of 2014 is planning the meeting of leading scientists from Georgian Technical University, Georgian Aviation University, Institute of Machines Mechanics and other organizations and implementation of relevant measurements in the field of sciences of machines and mechanisms

2- MEETINGS AND VISITS
The Georgian Committee of IFToMM International Federation organize at 22 September 2014 in Tbilisi city the meeting of researchers of EU grant project BSRANET-007 (RELIABILITY AND DURABILITY OF MACHINES AND MECHANISMS USED FOR OIL AND GAS TRANSPORTATION IN BLACK SEA REGION) member countries – Germany, Turkey, Azerbaijan, Georgia. The many significant problems of sciences of machines and mechanisms that are related to execution of this project were considered.

3- RESEARCH COLLABORATION AND EXCHANGES
The Georgian Committee of IFToMM International Federation has close collaboration with scientists from Germany, Turkey, Belarus, Poland, Azerbaijan and other countries. The joint researches in various directions of sciences of machines and mechanisms are conducting.

4- CONFERENCE EVENTS
At 19-21 June 2014 in Tbilisi due initiative of Georgian Committee of IFToMM and support of Georgian Technical University, Institute of Machines Mechanics and Georgian Academy of Engineering was held the International Scientific Conference “Mechanics 2014”. In the conference are participating the scientists from Russia, Germany, Italy, Poland, Kazakhstan, Azerbaijan and Georgia. Was made decision to hold the next conference “Mechanics 2016” in Tbilisi

5- MOST RELEVANT PUBLICATIONS (no more than 10)
During reported period we have not information about books with international range and the published articles in highly impacted international journals issued.
The publication format is following:
Are published the following books:

6- FUTURE PLANNED ACTIVITIES
The Georgian Committee of IFToMM is planning to hold at June 2016 International Scientific Conference “Mechanics 2016”

MO INDIA
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MO Webpage: http://www.ammindia.org

REPORT OF ACTIVITY from Oct 2013 to Oct 2014

1- MEETINGS AND VISITS
The AMM General Body Meeting (GBM) for the year 2013 was conducted on December 18, 2013, at IIT Roorkee, on the sidelines of the conference INACoMM 2013. The main agenda was to elect a new group of office bearers to serve for the term 2014-2017. The following have been elected to the various posts:
President: Prof. C. Amarnath, (Retd. Prof.), Dept. of Mechanical Engineering, IIT Bombay.
Vice-President: Prof. Ashitava Ghosal, Dept. of Mechanical Engineering, IISc Bangalore.
Secretary: Prof. G. Saravana Kumar, Dept. of Engineering Design, IIT Madras.

2- RESEARCH COLLABORATION AND EXCHANGES
a. Dr. Sandipan Bandyopadhyay, Department of Engineering Design, IIT Madras visited the Robotics Laboratory at the University of Duisburg Essen,

Duisburg, Germany, on September 02 (invited by Prof. Andreas Kecskemethy), and delivered a talk titled: "The Mathematics and Engineering of Parallel Manipulators".

b. Prof. Ashitava Ghosal, Department of Mechanical Engineering, IISc, Bangalore attended ISRM 2013 Conference at NTU Singapore, October 2013.

c. Dr. Sandipan Bandyopadhyay visited the Institut de Recherche en Communications et Cybernétique de Nantes (IRCCyN) at the Ecole Centrale de Nantes (ECN) during July 05-26, 2014 (upon an invitation from Prof. Phillipe Wenger). He also delivered a talk with the title "The Mathematics and Engineering of Parallel Manipulators" on July 24, 2014.

3- CONFERENCE EVENTS

One of the major activity of the Association for Machines and Mechanisms (AMM) (the Indian MO of IFToMM) in the past year was the organisation of the biennial event "International and National Conference on Machines and Mechanisms (iNaCoMM 2013) during December 18 - 20, 2013. The conference was organised by the Indian Institute of Technology Roorkee under the aegis of AMM and IFToMM. A total of 110 papers out of 120 registered articles were read, and 30 posters out of 39 were presented during the conference. Student mechanism design contest (SMDC) was also organised which was attended by 7 teams from different parts of India. Three workshops were organised on the first day.

* Bond Graph Modeling by Prof. Belkacem Ould-Bouamama, Ecole Polytechnique de Lille, France
* Compliant Mechanisms by Prof. G. K. Ananthasuresh, IISc, Bangalore
* Multi Body Dynamics by Prof. Javier Cuadrado, Univerderdad de La Coruña, Spain

A report on this can be found in the January 2014 edition of the quarterly news bulletin of AMM.

The conference on Industrial Problems on Machines and Mechanisms IPRoMM is one of the series of national events organized biannually under the aegis of AMM, on different themes of interest of industrial problems on machines and mechanisms. The 11th event in this series, IPRoMM-2014 was organized by the Mechanical Engineering Department, I.T.S Engineering College, Greater Noida. The theme of the conference was “CAD Simulations in Automobile and Allied Industry.”

A report on this can be found in the April 2014 edition of the quarterly news bulletin of AMM.

4- MOST RELEVANT PUBLICATIONS (no more than 10)


5- FUTURE PLANNED ACTIVITIES

a) AMM plans to hold the 2nd International and 17th National Conference on Machines and Mechanisms, iNaCoMM-15 during 16th- 19th December, 2015. The conference will be hosted by the Department of Mechanical Engineering at the Indian Institute of Technology Kanpur. For details and CFP, please visit the conference website: http://www.inacomm15.org . AMM invites participants from all IFToMM member nations.

b) AMM plans to hold the 12th conference on Industrial Problems on Machines and Mechanisms (IPRoMM 2016) during first week of December, 2016. The conference will be hosted by Visvesvaraya National Institute of Technology, Nagpur, India.
MO Israel
Chair name, affiliation and email: Prof. Moshe Shoham, Department of Mechanical Engineering, Technion - Israel Institute of Technology
Email: shoham@technion.ac.il
MO Webpage: http://robotics.technion.ac.il

REPORT OF ACTIVITY  for the year 2014

1- RELEVANT PHOTOGRAPHS, FLYERS

Prof. Moshe Shoham has been nominated as a Foreign Member of the US National Academy of Engineering last September.

MO ITALY
Cesare Rossi, via Claudio 21 80125 Napoli Italy,
Email: cesare.rossi@unina.it; rossi_cesare@fasteweb.it

REPORT OF ACTIVITY  from January 2014 to October 2014

1- DISCUSSION OF RECENT ACTIVITIES
Approved the IFToMM ITLY official Statute
Registered IFToMM ITALY at the Italian Agency of Revenue
Obtained the Italian fiscal Code Card
Stated that the journal “JoMaC” is the referential journal of IFTOMM Italy

2- MEETINGS AND VISITS
Telematic meetings on
- 14 Jan 2014
- 18 Feb.
- 27 Feb. (approved official Statute)
- 6 May
- 29 September
Announced the members’ general assembly on July 1 to discuss the next efforts of the Association

3- CONFERENCE EVENTS
Planned the Int. Conf. on Rotor Dynamics, Milano Sept. 2014

4- MOST RELEVANT PUBLICATIONS (no more than 10)
F. Penta, C. Rossi, S. Savino (2014) “Mechanical behavior of the imperial carroballista” Mechanism and Machine Theory, vol. 80, pp.142-150, ISSN: 0094-114X.
R. Vidoni, F. Mazzetto, M. Bietresato, A. Gasparetto and P. Boscariol “On the design of a Mechatronic Mobile System for Laser Scanner Based Crop Monitoring” Accepted for presentation at the 14th Mechatronics Forum International Conference, Karlstad (Sweden), June 16-18, 2014.
E. Shojaei Barjuei, P. Boscariol, A. Gasparetto, M. Giovagnoni, R. Vidoni “Control design for 3D flexible link mechanisms using linearized models” Accepted for presentation at the ROMANSY-2014 XX CISM-IFToMM SYMPOSIUM on Theory and Practice of Robots and Manipulators, Moscow (Russia), 23-26 June, 2014.
Ericka Madrid, Marco Ceccarelli Numerical solution for designing telescopic manipulators with prescribed workspace points, Robotics and Computer-Integrated
Manufacturing, Volume 30, Issue 2, April 2014, Pages 201-205.

Gani Balbayev, Marco Ceccarelli and Giuseppe Carbone,


5- OTHER RELEVANT INFORMATION
Updated the Italian representative commissions.

MO JAPAN
Haruo Houjoh,
Email: hhoujoh@pi.titech.ac.jp

REPORT OF ACTIVITY from 1 November 2013 to 30 October 2014

1- DISCUSSION OF RECENT ACTIVITIES
This year we had an annual symposium / meeting on May 24, 2014. The symposium included 11 academic presentation and one special lecture given by Professor Koichi Suzumori, Tokyo Institute of Technology. We encouraged young researchers by awarding good presentations. The finalist awards were given to Ms. Emiko Uchiyama (graduate student of the Univ. of Tokyo) for her paper entitle d:"Feature Extraction of EEG and Motion Data Using Canonical Correlation Analysis" and Mr. Takuya Otani (graduate student of Waseda Univ.) for his paper entitled: "Research in Biped Running Robot Utilizing Pelvic Movement (5th Report: Hopping Robot Using Pelvic Movement and Leg Elasticity of Multi-Joint Leg)". The best paper award was given to Mr. Shohei Kawasumi (Hitachi Construction Machinery Co., Ltd.) for his paper entitled: "Precise Pipe-Bending by 3-RPSR Parallel Mechanism Considering the Effect of Springback and Dies Clearances".

We also sponsored several seminars given by researchers from abroad. Unfortunately, we could not organize a technical visit to a firm.

We organized seminars by foreign researchers: Robotics seminar at Tokyo University by Prof. Wisama Khalil, and Tokyo Tech SMS special seminar by Prof. Jorge Solis.

2- MEETINGS AND VISITS
General annual meeting was held on the same day as the annual symposium as described above. The meeting consisted of about 40 attendee and summarized the one year activities.

3- RELEVANT PHOTOGRAPHS, FLYERS

Special lecture by Professor Koichi Suzumori at the annual symposium

The above information will be used in IFToMM Newsletter, and will be posted in the IFToMM webpage

MO KAZAKHSTAN
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Email: skanderbek1955@mail.ru
MO Webpage: www.immash.ucoz.kz

REPORT OF ACTIVITY from 1 January 2014 to 14 November 2014.

1- DISCUSSION OF RECENT ACTIVITIES

In 2014, members of the IFToMM MO Kazakhstan were conducted the workshops on the theory of mechanisms
and machines, for young scientists and students in the cities of Almaty, Pavlodar, Shymkent. In 2014, members of the IFToMM MO Kazakhstan joined to the following technical committees: Technical Committee for Multi-body Dynamics - Prof. Assylbek JOMARTOV; Technical Committee for Gearing and Transmissions - Prof. Konstantin IVANOV.

2- FUTURE PLANNED ACTIVITIES
Future planned activities: Promote co-sponsored events by IFToMM, increase the participation of Kazakhstan members on activities promoted by IFToMM. IFToMM MO Kazakhstan plans to actively participate in the work of the technical committees IFToMM and increase the number of publications in IFToMM journals.

3- RELEVANT PHOTOGRAPHS, FLYERS

Prof. A. Jomartov, prof. B. Glazunov in the XX CISM-IFToMM SYMPOSIUM on Theory and Practice of Robots and Manipulators, Moscow, Russia June 23-26, 2014

MO KOREA
Chong-Won LEE, Center for Noise and Vibration Control (NOVIC) Department of Mechanical, Engineering – KAIST, Email: cwlee@kaist.ac.kr
MO Webpage: www.ksme.or.kr

REPORT OF ACTIVITY for the year 2014

1- DISCUSSION OF RECENT ACTIVITIES
Do not have anything particular now to report our activities in Korea for the Newsletter.

MO LITHUANIA
Vytautas Ostasevicius, Director of the Institute of mechatronics, Kaunas University of Technology, Email: vytautas.ostasevicius@ktu.lt
MO Webpage: www.ktu.lt

REPORT OF ACTIVITY from 1 January 2014 to 31 December 2014.

1- DISCUSSION OF RECENT ACTIVITIES
Lithuanian members of IFToMM have taken part in several events and meetings during the period with IFToMM MO, and have collaborations in the educational area (undergraduate and postgraduate programs) and research activities with IFToMM and non IFToMM members.

2- MEETINGS AND VISITS
Few IFToMM members are involved in Lithuanian official delegation to visit Japan. Delegation visit in JAXA- Japan Aerospace Exploration Agency (left picture) and Tokyo Institute of Technology (right picture)
3- CONFERENCE EVENTS
International scientific conferences „Vibroengineering 2014“ were supported by IFTOMM and Lithuanian Academy of Sciences and organised in China (Guiyang) and Poland (Katowice).
The Conference in Guiyang (left picture below) attracted authors from China, Taiwan, South Korea, Japan, Bangladesh and Lithuania. Chinese Society of Aeronautics and Astronautics, IEEE RELIABILITY Society (Beijing Chapter), China State Key Laboratories on Reliability & Environmental Engineering, Beihang and Zhejiang Universities provided an active support to the Conference - representatives of these Institutions gave plenary speeches at the Conference, were supported by IFTOMM and Lithuanian Academy of Sciences. More that 60 authors participated in the Conference in Katowice (right picture below) and attracted speakers from Poland, Lithuania, Latvia, Russia, Check Republic, Japan, China and Columbia.

International Conference “Mechanika-2014” (chairman prof. V. Ostasevicius) was organized as one conference of the cycle “Science and Industry of Lithuania”. The conference “Mechanika-2014” took place on 24 - 25th of April at the Faculty of Mechanical Engineering and Design of Kaunas University of Technology. The Conference is organized by Kaunas University of Technology in cooperation with Lithuanian Academy of Science, IFTOMM National Committee of Lithuania and the Baltic Association of Mechanical Engineering (BAME).

4- MOST RELEVANT PUBLICATIONS

5- FUTURE PLANNED ACTIVITIES
Promote co-sponsored events by IFTOMM, increase the participation of Lithuanian members on activities promoted by IFTOMM, and to implement actions to encourage students in mechanical sciences.

MO MEXICO
Mario Acevedo-Alvarado, Universidad Panamericana, MEXICO,
Email: mario.acevedo@up.edu.mx
MO Webpage address: In progress

REPORT OF ACTIVITY from 1 January 2014 to 6 December 2014

1- CONFERENCE EVENTS
(1) XX Annual International Congress SOMIM, September 24-26, Juriquilla, Queretaro, Mexico (http://www.somim.org.mx/congreso2014/index.html)
(2) 5th International Symposium on Multibody Systems and Mechatronics 2014, October 21-24, Huatulco, Mexico (http://musme2014.org/)

2- FUTURE PLANNED ACTIVITIES
(1) 1st Meeting to plan MO activities, first quarter 2015.
(2) XXI Annual International Congress SOMIM,
September 24-26, Juriquilla, Queretaro, Mexico
(3) Development of the WEB page of IFToMM Mexico
(4) 2nd Meeting to plan MO activities, third quarter 2015.

MO The Netherlands
Dr. Arend L. Schwab, Delft University of Technology,
Email: a.l.schwab@tudelft.nl
MO Webpage address - none

REPORT OF ACTIVITY from 1 January 2014 to 31 December 2014

1- DISCUSSION OF RECENT ACTIVITIES
IFToMM continues to be an important platform for stimulating and sharing developments in mechanism and machine theory in the Netherlands. The team consists of the following persons: MO Chair Dr Arend Schwab, who is making his position available; Dr. Ton Klein Breteler as Chair of the Permanent Committee on Standardization and Terminology; Dr. Volkert van der Wijk as Member of TC Computational Kinematics, who acquired a grant for a post doc position at King's College with Prof. Jian Dai; Prof. Teun Koetsier as member of the Credential Committee and member of the Nominating Committee; and Prof. Just Herder as member of the Executive Committee and Treasurer.

The IFToMM affiliated open access journal Mechanical Sciences obtained Scopus and ISI indexing in 2014. Andreas Muller joined Nima Tolou and Amin Barari as an executive editor, while Just Herder continues his service as editor-in-chief. The journal entered its fifth volume and pertains its high quality policy. The IFToMM community is encouraged to submit their work, and openings for (young) editors are available for those who are motivated to actively support the journal.

2- MEETINGS AND VISITS
Prof. Just Herder attended the EC meeting in Guimaraes, Portugal, as Treasurer and presented the financial report. He was also a member of the awards committee of EUCOMES2014.

Dr. Chin Hsing Kuo spent a month at Delft University of Technology with Prof. Just Herder and set up a collaboration on statically balanced reconfigurable mechanisms.

MO POLAND
Professor Józef Wojnarowski, Silesian University of Technology ul. Konarskiego,
Email: jozef.wojnarowski@polsl.pl
MO Webpage: www.tmm ath bielsko.pl

REPORT OF ACTIVITY from 1 January 2014 to 31 December 2014

0- INTRODUCTION

Polish Committee on Theory of Machines and Mechanism (PC TMM – abbrev.) has two affiliations i.e.:
(a) Polish Academy of Science (Polish abbrev.: PAN),
(b) IFToMM – International Federation of Promotion of the Mechanism and Machine Science.

According to (a), we are a section of the “PAN” Committee on Machine Building.

According to (b), PC TMM is one of the national committees (MO) which established the Federation (IFToMM) in 1969 in Zakopane, Poland. Since the origins, Polish scientists have been actively involved in versatile IFToMM works, conferences, meetings, workshops etc. as well as they participated in IFToMM authorities of all levels. At present, Professor Teresa Zielińska (Warsaw TU) is the Secretary General of IFToMM. We use also the short name: “IFToMM-Poland” for simplicity.

1- DISCUSSION OF RECENT ACTIVITIES
Committee IFToMM-Poland co-ordinates several activities connected with Mechanism and Machine Science in Poland and its representatives actively participate in IFToMM Commissions and Committees. The main current issue consists in proposal of organization of the IFToMM World Congress in 2019 in Poland.

2- MEETING AND VISITS
A. Within year 2014, the following IFToMM-Poland events took place:
(i) plenary meeting no 5 (in Cracov, AGH-University of Technology in Cracow);
(ii) plenary meeting no 6 (Szklarska Poręba near Wroclaw);

Ad (i): the meeting took place on 9th May, 2014. Professor Tadeusz Uhl from the AGH-University of Technology was a Host of the meeting. During the meeting, we discussed a possibility of organization of the IFToMM World Congress in Poland in 2019 to celebrate 50-ies anniversary of creation IFToMM in 1969. Professor Tadeusz Uhl from the AGH Technical University from Cracow was appointed as a coordinator of this event and responsible for a proposal delivery in Taipei.

Resolution of the Committee IFToMM-Poland. Upon the motion of Professor Józef Wojnarowski, all the participants, unanimously accepted the resolution:
(i) supporting the attempts for organization of World Congress of IFToMM in Cracow in Poland in 2019; (ii) Professor Tadeusz Uhl has been appointed as a Representative (of IFToMM-Poland) for issuing the proposal of holding the IFToMM Congress in Cracow and Zakopane in 2019, for celebration of 50th anniversary of establishing of IFToMM in 1969; (iii) Professor Tadeusz Uhl has been appointed for contacts with the Polish Academy of Science upon this matter, whereas the organization task is granted to Him and IFToMM-Poland – He is entitled for applying for the financial support from the PAN (Polish Academy of Science); (iv) the matter of delivering an application about the organization of IFToMM Congress to IFToMM
authorities will be viewed/managed by a group of three persons:
(a) Professor Tadeusz UHL–IFToMM Congress Organizer;
(b) Professor Józef WOJNAROWSKI–Chair of IFToMM-Poland;
(c) Professor Teresa ZIELIŃSKA–Secretary General of IFToMM.

Groups of experts for some special tasks – Chairs and Reports. The proposals were given by Professor Antoni Gronowicz. The Chairs of the following groups were chosen:
– evaluation of papers submitted for the conference TMiUM 2014 in Szklarska Poręba i.e. Polish Conference on TMM – Prof. Józef Wojnarowski,
– summary and analysis of study curricula (programs) connected with the field TMM Science on polish technical universities and on mechanical engineering faculties in other universities – Prof. Antoni Gronowicz,
– summary and analysis of computer commercial programs (software) used for teaching of subjects connected with TMM Science – Prof. Iwona Adamiec-Wojcik,
– analysis of topics of scientific programs from the field of TMM – financially supported by governmental Centers within recent years – Prof. Jerzy Margielewicz,
– problems of TMM in new design solutions of agriculture machines – prof. Henryk Kaźmierczak;
– methods of modeling and analysis of spatial mechanisms – Prof. Krystyna Romaniak.

Ad (ii). The conference results were summarized. Due to the end of the term of duties of Committee IFToMM-Poland, the activities within the last three years were analyzed and plans for future term have been discussed. The invited lectures were presented by professors members of IFToMM Executive Council: Marco Ceccarelli from Casino in Italy and Burghard Corves from Aachen in Germany.

B. Meeting of the IFToMM Technical Committee on Linkages and Mechanical Controls took place during the Conference in Szklarska Poręba on 22nd September 2014. The Chair of this TC – Professor Erwin-Christian Lovasz was the Organizer and Head of the meeting.

3- RESEARCH COLLABORATION AND EXCHANGES
Prof. Teresa Zielińska: Lecturing in IFToMM Summer School – Timisoara 2014.

4- CONFERENCE EVENTS
The International Conference on Theory of Machines and Mechatronic Systems is organized biannual by the Committee IFToMM-Poland. The 25-th conference (TMiUM) took place in Szklarska Poręba on 22-24 September 2014, organized by Wroclaw University of Technology.

5- MOST RELEVANT PUBLICATION

6- FUTURE PLANNED ACTIVITIES
(i) Organization of IFToMM World Congress in Poland 2019.
(ii) Organization of the 3-rd International Conference “Graph Modelling in Engineering” in Bielsko-Biała in 2015.

7- OTHER RELEVANT INFORMATION
The CV-s of the IFToMM founders: Prof A.Morecki and Prof J.Oderfeld had been published by the members of IFToMM Poland:

(b) T. Zielińska. Jan Oderfeld (1908–2010)

8- PHOTOGRAPHS and FLYERS

Polish Committee on Theory of Machines and Mechanisms (IFToMM-Poland)
Profesor Józef Wojnarowski – Chair of IFToMM-Poland (in gray jacket in the center)

MO ROMANIA
Prof. Ioan DOROFTEI, “Gheorghe Asachi” Technical University of Iasi,
Email: idoroft@mail.tuiasi.ro; ioan_doroftei@yahoo.com
MO Webpage address: www.arotmm.ro

REPORT OF ACTIVITY from 1 November 2013 to 1 November 2014

1- DISCUSSION OF RECENT ACTIVITIES
IFToMM MO of Romania is represented by Romanian Association for the Science of Mechanisms and Machines (ARoTMM), founded in 1970, and gathers members from universities all over the country; Brașov, Bucharest, Bacau, Baia Mare, Cluj Napoca, Craiova, Galati, Iasi, Oradea, Pitesti, Resita, Timisoara, Targu Jiu, Targu Mures. Developing joint research, harmonizing the education content in the specific topics and networking were the main targets followed by the members and represent the core activities in the past year.

The 9th edition of the National Seminary for Mechanisms was organized by ARoTMM - Iasi branch, June 13-14, 2014, and it focused on: mechanisms and machines modeling and simulation; mechanisms applications in robotics and biomechanics; experimental cases.

2- MEETINGS AND VISITS
Meetings:
- A General Assembly meeting of ARoTMM took place on November 11, 2013, during the 11th IFToMM International Symposium on Science of Mechanisms and Machines - SYROM’2013, in Transilvania University of Brașov, Romania. The main goal of this meeting was the Report of the past national board, with Prof. Ion VISA as Chair and the election of the new national board. Prof. Ioan DOROFTEI was elected as new MO Chair of Romania.

3- RESEARCH COLLABORATION AND EXCHANGES
- Research project - PN-II-PT-PCCA-2013-4-1629 (2014-2016) - entitled: "Design, development and testing of a mechatronic system for multispectral monitoring for vegetation condition of the agricultural crops (MoniCult)". Partners: Transilvania University of Brașov (coordinator);
National Institute of Research and Development for Potato and Sugar Beet Brasov; Technical University of Cluj-Napoca; Hibiul Ltd. Harman. Project director: Assoc.Prof. dr. eng. Marius Cristian LUCULESCU. Aim: ensuring innovative solutions for multispectral monitoring of vegetation status of crops, based on mechatronic systems in order to improve precision agricultural management.


- Collaboration between Prof. Ioan Doroftei, Gheorghe Asachi Technical University of Iasi, Romania, and a team from Université Blaise Pascal, Clermont-Ferrand, France, in the framework of Laboratoire d'Excellence, Project IMoB83, Challenge 1, "Intelligent Vehicles And Machines". The goal of the project, entitled C3Bots (Collaborative Cross and Carry mobile robots) is to design several mobile robots with a simple mechanical architecture, called m-bots, that will be able to autonomously co-manipulate and transport objects of any shape by connecting together. The resulting polyrobot system, called p-bot, will be able to solve the so-called removal-man-task to transport any object on the top platform of m-bots (dorsal transport). Reconfiguring the p-bot by adjusting the number of m-bots allows to manipulate heavy objects with any shape, particularly if they are wider than a single m-bot. This particular variant of the C3Bots project will be called C3Bots DGP (Dorsal General Payload transport).

4. CONFERENCE EVENTS

- 11th IFToMM International Symposium on Science of Mechanisms and Machines - SYROM’2013, organized by the Romanian Association for the Science of Mechanisms and Machines (ARoTMM), in Transilvania University of Brașov, Romania, during 11-12 November 2013. The SYROM’2013 was part of the International Federation for the Promotion of Mechanism and Machine Science (IFToMM) conferences agenda. Chairman of the symposium was Prof. Ion Visa, immediate past MO Chair of Romania.


- Conference for Sustainable Energy, CSE 2014, 4th Edition, Brasov, Romania, Transilvania University of Brasov, The R&D Institute of the University, November 6 - 8, 2014, Chairman Prof. Ion Visa. With the support of: IFToMM, Technical Committe Sustainable Energy Systems; European Sustainable Energy Innovation Alliance, ESEIA; Romanian Academy of Technical Sciences, ASTR.

- The 3rd Conference MAMM Timisoara, Romania, October 2-4, 2014. With the support of: IFToMM, Technical Committee Micromachines and Technical Committee Linkages and Mechanical Controls.

- Summer school on Micro and Macro Mechanisms Design in Mechatronics and Robotics 2014, Politechnica University of Timisoara, July 13-20, With the support of IFToMM.


5. MOST RELEVANT PUBLICATIONS


6- FUTURE PLANNED ACTIVITIES
The 10th edition of the National Seminary for Mechanisms will be organized by ARoTMM - Brasov branch, during the spring, 2015.

7- RELEVANT PHOTOGRAPHS, FLYERS

MO Chair Election

ACME 2014 and SNM 2014

MO SERBIA
Prof., Dr. Aleksandar VEG, Assosiation of Serbia for the Promotion of Mechanism and machine Science,
Email: aleksandar.veg@rotech.rs

REPORT OF ACTIVITY from 31 October 2013 to 31 October 2014

1- DISCUSSION OF RECENT ACTIVITIES
Motto of the latest campaign: ATRACT STUDENTS to TECHNICAL SCIENCE (Mechanisms). We are constantly losing the pace compared to Management/IT/Marketing Colleges

2- MEETINGS AND VISITS
TU Ilmenau, Germany.

3- RESEARCH COLLABORATION AND EXCHANGES
Through HUTON (Tempus) project several visits to Ljubljana, Slovenia; Genoa, Italy

4- CONFERENCE EVENTS
- 1st International Symposium on Machines, Mechanics and Mechatronics – Current Trends, Belgrade 1-2 July, 2014, under IFToMM auspices, organized by Local IFToMM Committee
- RAILCON 2014, Nis
- Transportation and Logistics TIL 2014, Nis

5- MOST RELEVANT PUBLICATIONS (no more than 10)
• Authors: B. Rašuo, M.Dinulović, A.Veg, A.Grbović, A.Bengin
  Article title: Harmonization of new wind turbine rotor blades development process
  Journal title: Renewable and Sustainable Energy Reviews
  Bibliographic details: Renewable and Sustainable Energy Reviews (2014), pp. 874-882
  DOI Information:10.1016/j.rser.2014.07.137
• Authors: Urosevic Vlade D, Savic Biljana, Veg Aleksandar,
  Article title: Software for Vibration Monitoring and Operating the Engine Using Fuzzy Logic Controller,
  Journal Title: METALURGIA INTERNATIONAL 2013 18 ():339-343
• Authors: R. Slavkovic, Z. Jugovic, D. Kozak, A. Veg, R. Radisa, S. Dragicevic, M. Popovic,
  Article title: SIMULATION OF THE CASTING PROCESS - A POWERFULL TOOL FOR ENCHANCED DESIGN OF THE CUTTING TEETH IN SURFACE MINING’
  Bibliographic details: UDC-UDK 621.746.7:544.4:620.178.1=111, Journal Metalurgija:ISSN 0543-5846, 3/2013
6- FUTURE PLANNED ACTIVITIES
- Promotion of the next IFToMM WC 2015 among Serbian membership
- Cooperation with EU Universities
- Laboratories furnishing with the new equipment

7- RELEVANT PHOTOGRAPHS, FLYERS

HUTON Workshop in Genoa, Oct 2014

**MO SINGAPORE**
Dr. Lin Wei, Singapore Institute of Manufacturing Technology, Singapore,
Email: wlin@simtech.a-star.edu.sg

**REPORT OF ACTIVITY** for the year 2014

1- DISCUSSION OF RECENT ACTIVITIES
MO Singapore obtained approval from the Young Delegate Program to support a PhD student to attend the RoManSy 2014 in Moscow. MO Singapore has co-organised with local institutes several seminars related to robotics and precision mechatronics. They are (1) Breakfast talk on Equipment Performance Measurement & Analysis on 11 November 2014. Key speaker was Dr. D Filip of LMS, (2) “Enhancing tracking performance by learning” given by Prof Masayoshi Tomizuka of UC Berkeley, USA on 23 October 2014, and (3) “Knowledge Representation and Exchange for Robot Tasks” by Mr A. C. Perzylo of Fortiss, Germany.

**MO SLOVAKIA**
Prof. Eng. PhD. Stanislav Ziaran, Slovak University of Technology, Faculty of Mechanical Engineering,
Email: stanislav.ziaran@stuba.sk

**REPORT OF ACTIVITY** for the year 2014

1- DISCUSSION OF RECENT ACTIVITIES
The main activities in 2014 of Member Organization Slovakia in collaboration with universities of technology mainly Faculty of Mechanical Engineering in Bratislava, Slovak Academy of Science, Slovak Society of Environmental Technology and Slovak Acoustic Society were organized international and national conferences:
XIX. International acoustic conference “Noise and Vibration in Practice” was held in Kocovce.
The 27 papers have been presented at the conference from universities and practices about noise and vibration control machines and machineries. This conference welcomed more than 50 participants whose are usually yang people from the middle Europe. Output of the conference was the peer-reviewed scientific proceeding of papers in printed form (see Fig.)

The eighth year of the international conference for yang researchers a PhD. students ERIN was held in Blansko-Češkovice in Czech Republic. This year of ERIN Conference was organized by Faculty of Mechanical Engineering in Bratislava and the same faculty in Brno. This conference welcomed near by 125 participants from 11 countries. Participants heard 89 lectures which where presented by representatives of machines producers companies, universities and research institutions. Concept of the conference has originated at the Faculty of Mechanical Engineering in Bratislava and dates back to 2007 when the first conference was held. Other years followed: in 2008 in Bratislava, in 2009 in Ostrava, in 2010 in Pilsen, in 2011 in Vysoke Tatry, in 2012 in Prague, in 2013 in Častá-Papiernička. Modest beginnings were succeeded by a successful development and ERIN became a prestigious conference aimed at PhD. students and young researchers. We would like to kindly invite you to the 9th year of ERIN Conference which is very progressively developed conference. The next year of ERIN conference will be held in Monínec, Czech Republic, from 4th through 6th of May 2015. For more information visit [http://www.erin-conference.cz/](http://www.erin-conference.cz/).

2- RELEVANT PHOTOGRAPHS, FLYERS

MO SLOVENIA
Prof. dr. Karl Gotlih, Faculty of Mechanical Engineering University of Maribor,
Email: karl.gotlih@um.si,

REPORT OF ACTIVITY  for the year 2014

1- CONFERENCE EVENTS
In the year 2014 there have been conferences according to IFToMM in Slovenia. First to mention is the national annual conference on mechanics Kuhljevi dnevi. The conference was in Maribor from 24th - 25th September 2014. The conference proceedings are available online through the web page: [http://www.drustvozamehaniko.si/zbornik/ZbornikKD2014.pdf](http://www.drustvozamehaniko.si/zbornik/ZbornikKD2014.pdf).

The next important conference under the patronage of IFToMM was the conference ARK 2014 Ljubljana from 29th June - 3th July 2014 at the Institute J. Stefan. The conference chairmen were prof. dr. Lenarčič and prof. dr. Khatib from Stanford. The home page of the conference can be viewed on the address [http://www2.ijs.si/ijsw/V000/IJS/ARK2014](http://www2.ijs.si/ijsw/V000/IJS/ARK2014).

2- FUTURE PLANNED ACTIVITIES
The Slovenian national committee is now in the preparation for the next world IFToMM conference. Through our delegates in IFToMM Technical committees we try to announce the world conference and do our best
to encourage researchers to submit papers. Our project for promotion of engineering for primary school children is now twelve years old and we still find new approaches and project for this important and very interesting promotion on machines, mechanisms, robots and mechatronics.

MO SPAIN
Asociación Española de Ingeniería Mecánica (AEIM)
Prof. Dr. Fernando Viadero-Rueda, University of Cantabria, Email: viaderof@unican.es
MO Webpage: http://www.asoc-aeim.es/

REPORT OF ACTIVITY  from January 2014 to December 2014

1- DISCUSSION OF RECENT ACTIVITIES
The Spanish Award of Merit in Mechanical Engineering has been created by the AEIM on 2014. This award recognize the activities for promotion of Mechanical Engineering. In the first edition, Prof. Justo Nieto, former Iftomm MO of Spain, has been recognized with this AEIM Award of Merit.
The AEIM has organized the second edition of the Award to the best PhD Thesis in Mechanical Engineering. The winner of the prize was Dr. Carolina Senabre, by the work entitled “Study and Modeling of Vehicle Brake Performance on ITV Bank Rolls”, that was advised by Prof. Emilio Velasco. Also two secondary awards were given to Dr. Miryam B. Sanchez by the work entitled “Model Calculation of High Contact Ratio Cylindrical Gears”, advised by Prof. Jose I. Pedrero and Miguel Pleguezuelos; and to Dr. Joaquin Ojeda for the work “Application of MBS Techniques to the Human Locomotor System”, advised by Prof. Juana Mayo and Javier Martinez.
Both awards, Spanish Award of Merit and PhD Thesis Awards, were presented during the gala dinner of the XX CNIM in Malaga, on 25th September.
The members of the AEIM (Spanish Association of Mechanical Engineering), the Spanish MO of IFTOMM, have participated in events sponsored by IFTOMM and they continue with the compromise and involvement in IFTOMM activities.

2- MEETINGS AND VISITS
The AEIM has approved the creation of the Working Group of the History of Engineering and Mechanics of Machines and Mechanisms. They have celebrated the constitution meeting and are at this moment preparing some activities as working group on this area.

3- RESEARCH COLLABORATION AND EXCHANGES
The participation of Spain in the Technical Committees and Permanent Commissions of IFTOMM has been maintained or even increased.

4- CONFERENCE EVENTS
The XX National Conference in Mechanical Engineering (XX CNIM) was celebrated in Malaga, from 24th to 26th September 2014, organized by the AEIM and the University of Malaga.
Previously to this Conference, on the 23rd, a technical journey about Linkages Kinematics Analysis and Synthesis Simulation using Software WinMecc was celebrated. Prof. A. Simón, President of the XX CNIM Conference, and others colleagues of the Faculty of Engineering of the University of Malaga, as Juan A. Cabrera, Alex Bataller and Fernando Nadal, taught that short course; that was supported both by the National Conference in Mechanical Engineering and the Spanish Net of Mechanical Engineering.

5- MOST RELEVANT PUBLICATIONS
All communications presented in the XX National Conference in Mechanical Engineering (XX CNIM) have been published in the Journal of the Spanish Association of Mechanical Engineering (Anales de Ingeniería Mecánica; http://www.asoc-aeim.es/anales.html).

6- FUTURE PLANNED ACTIVITIES
The AEIM develops every even year a meeting of Professors in Mechanical Engineering and Vehicles, which during 2015 will arrive to the XV edition and will be held in September in the city of Salamanca, organized in collaboration with the group of Mechanical Engineering of the University of Salamanca.
The XII Ibero-American Conference on Mechanical Engineering (CIbIM12), organized by the FIbIM (Ibero-American Federation of Mechanical Engineering) will take place in Guayaquil (Ecuador) on 2005.

7- OTHER RELEVANT INFORMATION
During the General Assembly of the AEIM that was held in Malaga on 25th September it was proceeded to the election of the new president Association, for the term 2015-2018. The new president is Professor José Luis San Román of the University Carlos III of Madrid. Prof. San Román will replace Prof. Fernando Viadero, who has been president since 2007, two terms, the allowed by AEIM statutes.
Singular bicycle presented at the opening ceremony of the XX CNIM in Malaga. In the image the President of AEIM, Prof. Fernando Viadero (1st left), and the President of XX CNIM Conference, Prof. Antonio Simón (1st right).

MO SWITZERLAND
Dr. Hannes Bleuler, Robotic Systems Lab LSRO, EPFL Lausanne,
Email: Hannes.bleuler@epfl.ch
MO Webpage: http://people.epfl.ch/hannes.bleuler

REPORT OF ACTIVITY from 1 January 2014 to 30 November 2014

1- DISCUSSION OF RECENT ACTIVITIES
Hannes Bleuler was newly elected chair of MO Switzerland following the proposal of my predecessor, Prof. Reymond Clavel

2- RESEARCH COLLABORATION AND EXCHANGES
Strong collaboration and exchanges with Prof. Doina Pisla, Techn. Univ. Cluj-Napoca and Prof. Aleksandar Rodic, Inst. Mihailo Pupin, Belgrad

3- CONFERENCE EVENTS
An IFToMM-sponsored conference was held at EPFL Lausanne July 10-13 on Medical and Service Robotics

4- MOST RELEVANT PUBLICATIONS (no more than 10)

5- FUTURE PLANNED ACTIVITIES
Next year’s MESROB conference on Medical and Service Robotics will be held in France (Ecole Centrale, Nantes), July 8-10, as follow-up of the Romania, Serbia and Switzerland conferences. The strong collaboration continues. Participation of Switzerland in the First IFToMM D-A-CH Conference, TU Dortmund, March 11th 2015 (with Prof. J. Schiffmann)

MO TUNISIA
Dr. Lotfi Romdhane, Ecole Nationale d’Ingénieurs de Sousse,
Email: lotfi.romdhane@gmail.com

REPORT OF ACTIVITY from November 2013 to October 2014

1- DISCUSSION OF RECENT ACTIVITIES
The Tunisian Association of Mechanical Engineering (ATM) organized its national congress COTUME 2014, several papers in the mechanism and machine science were presented. This event is mainly a national one and it is the occasion to get the Tunisian researchers together.

2- FUTURE PLANNED ACTIVITIES

MESROB 2014 Medical and Service Robotics Workshop & Summer School
EPFL Lausanne, LSRO, July 9th to 12th 2014

This workshop sponsored by SNF (in the framework of the SCOPES program) and IFToMM was attended by 60 participants from 14 nations. After two days of tutorials (Summer School), 28 research publications and two keynotes have been presented (details at http://mesrob.epfl.ch/)

As highlights the keynotes by the french team from CEA/Clinatec in Grenoble about a full-body exoskeleton with direct (invasive) cortical command for tetraplegics can be mentioned along with the report on the walk-again project (kick-off by a paraplegic in EEG controlled exoskeleton at the world soccer cup opening ceremony). The excursion by steamboat on Lake Geneva and for the Saturday morning session at the Emosson barrage made it an unforgettable event for all.

H Bleuler, F. Mondada, M. Bouri
In the year 2014 started the organization of the 6th International Congress: Design and Modeling of Mechanical Systems: CMSM2015, which will be held from 23 to 25 March 2015 in Hammamet, Tunisia.

MO TURKEY
Prof., Dr. Eres SOYLEMEZ, Middle East Technical University,
Email: eres@metu.edu.tr
MO Webpage: http://www.makted.org.tr/EN/

REPORT OF ACTIVITY from 1 January 2014 to 20 November 2014

1- DISCUSSION OF RECENT ACTIVITIES
The main organized event of the MO is the Winter School on Kinematic Synthesis held in Department of Mechanical Engineering, Erciyes University (Kayseri, Turkey). The local organizer was MO member Prof. Ibrahim Uzmay and the lecturers were MO members Prof. Eres Söylemez, Dr. Şelçuk Erkaya and Dr. Gökhan Kiper. Above 30 professors and graduate students from different regions of Turkey attended the winter school. Other activities such as meetings, visits, conference participation, major publications and

2- MEETINGS AND VISITS
- Prof. Marco Ceccarelli from University of Cassino (Cassino, Italy) visited İzmir Institute of Technology and Ankara in February 17-22, 2014. Prof. Ceccarelli gave a talk about the past and organization of IFToMM. Prof. Ceccarelli discussed possible collaborations and joint organizations with MO members Dr. Can Dede, Dr. Gökhan Kiper and Prof. Eres Söylemez.
- MO member Dr. Can Dede attended the TC meeting of Technical Committee for Linkages and Mechanical Controls during ROMANSY 2014
- MO member Dr. Gökhan Kiper attended the TC meetings of Technical Committee for Computational Kinematics during ARK 2014 and EUCOMES 2014

3- RESEARCH COLLABORATION AND EXCHANGES
- Erasmus agreement between Departments of Mechanical Engineering of University of RTWH Aachen University (Aachen,Germany) and İzmir Institute of Technology (İzmir, Turkey) organized by Prof. Burkhard Corves (RTWH Aachen) and Prof. Can Dede (İzTech).
- Erasmus agreement between Departments of Mechanical Engineering of University of Cassino (Cassino, Italy) and İzmir Institute of Technology (İzmir, Turkey) was renewed, organized by Prof. Marco Ceccarelli (UniCas) and Prof. Can Dede (İzTech).

4- CONFERENCE EVENTS

5- MOST RELEVANT PUBLICATIONS (no more than 10)
MO members are underlined for the following publications in journals with high impact factor:

Some of our MO members have attended IFToMM sponsored conferences:

<table>
<thead>
<tr>
<th>MO member</th>
<th>Conference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Can Dede</td>
<td>ROMANSY-2014 XX CISM-IFToMM SYMPOSIUM on Theory and Practice of Robots and Manipulators, Moscow, Russia, June 23-26, 2014</td>
</tr>
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<td>Dr. Gökhan Kiper</td>
<td>14th International Symposium on Advances in Robot Kinematics, Ljubljana, Slovenia, - June 29 - July 3, 2014</td>
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Dr. Gökhan Kiper
5th European Conference on Mechanism Science, Guimaraes, Portugal, September 16-20, 2014


6- FUTURE PLANNED ACTIVITIES

An IFToMM sponsored international symposium is being organized: TrC-IFToMM Symposium on Theory of Machines and Mechanisms (TRISToMM), June 14-17, 2015. National Symposium of Theory of Machines (UMTS) is being held in Turkey since 1984. Each symposium is organized in a different university in Turkey and the 17th of this event will be held in Izmir Institute of Technology in 2015. Unlike previous UMTS organizations, 17th UMTS will have a large-scale international participation, hence the event is re-named as TrC IFToMM Symposium on Theory of Machines and Mechanisms (TRISToMM). During the symposium Prof. Burkhard Corves from RTWH Aachen University (Aachen, Germany) will be giving a half-a-day tutorial on kinematic synthesis. Also a student contest on mechanism design will be organized during the symposium. Symposium webpage: http://ums.iyte.edu.tr/en/

7- OTHER RELEVANT INFORMATION

During ROMANSY-2014 Assist. Prof. Dr. Erkin Gezgin from Kaptip Celubi University was nominated as a member of the Technical Committee for Robotics and Mechatronics and afterwards was designated as a TC member.

8- RELEVANT PHOTOGRAPHS, FLYERS

Winter School on Kinematic Synthesis – Feb. 3-8, 2014, Kayseri/Turkey

TrC-IFToMM Symposium on Theory of Machines and Mechanisms (TRISToMM) flyer:

2014.

2- MEETINGS AND VISITS
- Prof Jian S Dai from King’s College London, Dr Yeping Xiong from University of Southampton, Dr Xiamen Kong from of Herriott-Watt University; Dr Yang Liu from Robert Gordon University, Dr David Branson from University of Nottingham visited the University of Aberdeen and IFToMM UK on 16 May 2014.
- IFToMM President Prof Yoshihiko Nakamura visited the University of Aberdeen and gave the presidential address in the IFToMM UK Member’s meeting. Prof Nakamura gave a brief introduction to the IFToMM by explaining its mission and its structure. He referred to its origins mentioning that the IFToMM UK was one of the IFToMM founders. He emphasised the importance of the Member Organizations, which strength is vital for the IFToMM health and success. He has described the IFToMM activities organized by the member organisations, the technical and permanent committees including organisation of professional meetings and conferences. He urged to attend the next IFToMM Congress which will be held in Taipei in October 2015.
- A dozen IFToMM UK members will meet on 4 December 2014 at Kings College London. The meeting will be hosted by Prof Jian S Dai.

3- RESEARCH COLLABORATION AND EXCHANGES
- Collaborations between members in the UK: Research presentations and theme/group discussions for joint proposals have been scheduled as one of the IFToMM UK Annual meeting on 4th December 2014 in London.
- Joint papers by IFToMM UK members in 2013 and 2014, e.g.

4- CONFERENCE EVENTS
- 9th IFToMM International Conference on Rotor Dynamics 22-25 September 2014, Milan, Italy attended by Prof David Ewins, Prof Semus Garvey and Dr Jyoti K. Sinha
- IFToMM Executive Committee meeting held in September 2014, Guimarães, Portugal, attended by Prof. Daizhong Su, Chair IFToMM TC for Gearing and Transmissions.
- 10th International Conference on Vibration Engineering and Technology of Machinery-

5- MOST RELEVANT PUBLICATIONS
give information only about books with international range and the published articles in highly impacted international journals issued during reported period, Wiercigroch, M. and Rega, G. eds 2013 Proc of IUTAM Symposium on Nonlinear Dynamics for Advanced Technologies and Engineering Design. Springer-Verlag (454p.)

6- FUTURE PLANNED ACTIVITIES
- IFToMM-UK Annual meeting be held in London Dec 4th 2014 at King’s College London: Strand Campus.
- Joint proposals to apply funding to enhance collaborations between IFToMM UK members

7- RELEVANT PHOTOGRAPHS, FLYERS
MO USA
Qiaode Jeffrey Ge, Professor and Interim Chair, Department of Mechanical Engineering, Stony Brook University, New York, USA., Email: Qiaode.Ge@stonybrook.edu

REPORT OF ACTIVITY from 1 November 2013 to 31 October 2014

1- DISCUSSION OF RECENT ACTIVITIES
During ASME IDETC 2014 conference, there was a meeting discussed future funding for IFToMM from ASME Design Engineering Division. Passed out flyers for IFToMM 2015 World Congress and encouraged US participation. Nominated Nina Robison to IFToMM Technical Committee on Computational Kinematics.

2- MEETINGS AND VISITS
Attended IFToMM EC meeting held in Taipei, Taiwan, in November 2013

3- FUTURE PLANNED ACTIVITIES
Recruit younger researchers to be involved in various TCs and PCs of IFToMM

MO VIETNAM
Nguyen Van Khang, Hanoi University of Science and Technology, Email: khang.nguyenvan2@hust.edu.vn; nvankhang.hut@gmail.com

REPORT OF ACTIVITY from 1 January 2014 to 27 October 2014

1- DISCUSSION OF RECENT ACTIVITIES

2- RESEARCH COLLABORATION AND EXCHANGES
Members of IFToMM MO Vietnam are taking part as principal investigators in a number of research project financed by the Vietnam National Foundation for Science and Technology Development (NAFOSTED).

3- CONFERENCE EVENTS
- Organizing the National Symposium on Vibration and Control of Structures under Wind Actions (with international participation) in Hanoi, February 24-25, 2014.

4- FUTURE PLANNED ACTIVITIES

NEWS FROM TECHNICAL COMMITTEE
[A total of 1 reports]

SYMPOSIUM MUSME

5TH IFTOMM-FeIBIM INTERNATIONAL SYMPOSIUM ON MULTIBODY SYSTEMS AND MECHATRONICS

The 5th IFToMM-FeIBIM International Symposium on Multibody Systems and Mechatronics (MUSME 2014) was held in Huatulco, Mexico on 21-24 October 2014. The goal of the symposium was to bring together researchers from the broad ranges of disciplines referring Multibody Systems and Mechatronics, in a collegial and stimulating environment. There were 64 participants representing 13 countries. The meeting proved to be an excellent forum for discussing new approaches to the multidisciplinary fields of Multibody-Mechatronics Systems.

BACKGROUND
The MUSME Symposium is a triennial conference sponsored by the IFToMM Technical Committees (TC) for Multibody Dynamics, and Robotics and Mechatronics and the FeIBIM Commission for Mechatronics. One of the purposes of these Technical Committees is to streamline their activities into the large area of mechatronics systems. The first MUSME conference in the series was held in Mexico City, in 2002. The second symposium was held in Uberlandia, Brasil, in 2005. The 3rd event was held in San Juan, Argentina in 2008 and the 4th symposium was held in Valencia, Spain, in 2011. The 6th symposium will held in Florianopolis, Brazil, in 2017.
VENUE
The symposium was held at the Huatulco Campus of the Universidad del Mar in Bahias de Huatulco, Oaxaca located on the Pacific coast of Mexico. This university belongs to Sistema de Universidades Estatales de Oaxaca (SUNEO) of the Oaxaca state.

THE SYMPOSIUM PROGRAM
The symposium program consisted of 10 technical sessions as well as a round table on “Perspectives of Mechatronics in Mexico” chaired by Prof. Marco Ceccarelli. A total of 53 papers were accepted after the completion of a full review process managed through Easychair system. Finally, at the conference site 48 papers were presented according to the scheduled technical sessions. All registered participants were provided with a hardcover book containing symposium proceedings, which were published into the volume 25 of Mechanism and Machine Science (MMS) Book Series of Springer. The Springer book series on MMS will give proper worldwide visibility and long term availability of the proceedings, as already experienced for other proceedings volumes in the series. Royalties have been agreed to be given to IFToMM.

AWARDS and IFToMM Young Delegate Program (YDP)
Traditionally MUSME symposium have recognized the authors of the best paper award and the best student paper. In this event, three categories were considered for best paper awards, Research, Applications and Student category. A committee was established to choose three rank winners for each category, with Marco Ceccarelli-Chair of International Scientific Committee (ISC), Eusebio Hernandez-Chair of MUSME 2014, and Joao Carvalho-member of ISC. They considered carefully the accepted papers by taking into account also the review outputs. In the research category were selected Francisco Bejarano and Jorge Davila for “Output Stabilization of Linear Systems with Disturbances”, Jorge Ambrosio et al. for “Cylindrical Contact Force Models for the Dynamics of Roller Chain Drives” and Esteban Chavez et al., for “Concurrent Structure-Control Design of Parallel Robots using an Estimation of Distribution Algorithms”, following the rank order, gold, silver and bronze, respectively. In the applications area were recognized J. Cazalilla et al., for “Implementation of force and position controllers for a 3DOF parallel manipulator”, Jony Eckert et al., for “Gear Shifting Strategies Co-simulations to Optimize Vehicle Performance and Fuel Consumption”, and J. Carvalho and T. Silvestre for “Motion Analysis of a Six-Legged Robot Using the Bennett’s Linkage as Leg”. Finally, in the students category were selected Carlos Duchanoy et al., for “Nonlinear Full-car Model for Optimal Dynamic Design of an Automotive Damper”, Giuseppe Canella et al., for “Adaptive Low Cost Gravity Balanced Orthosis” and U. Kuenzer and M. Husty for “Joint Trajectory Optimization Using All Solutions of Inverse Kinematics of General 6-R Robots”. This selection will be also used for the traditional special issue in the International Journal Mechanics Based Design of Machines and Structures with the two chairs as guest editors for handling a second review process.

Ten YDP requests were received with proper full documents. After a carefully evaluation by the two Co-Chairs, four grants were given to students by sharing the amount of 1,000 USD of the scheduled YDP support.

Finally, an IFToMM Honour was given to Prof. Carlos Lopez Cajun by past IFToMM President according to previous decisions by Executive Council.
SOCIAL EVENTS
The social program included the following activities: Welcome buffet, touristic tour, conference banquet and a Bohemia night. These activities were planned to facilitate interactions and discussions among participants. All events were well attended.

ACKNOWLEDGMENTS
Organizing an international symposium of this size required the efforts of many individuals from organizing and supporting institutions. We like to acknowledge the support of IFToMM and FeIbIM as well as that of our colleagues from ISC who attended the symposium. We also wish to thank all speakers, session chairs, authors, reviewers and local organizing committee members. All of these persons worked hard to make this international symposium successful. We look forward to seeing every one again at the 6th International Symposium on Multibody Systems and Mechatronics in Florianopolis, Brazil, in 2017.

CALL FOR 2015 IFToMM WORLD CONGRESS
Date: October 25-31, 2015
Webpage: www.iftomm2015.tw
Venue: Taipei, Taiwan
Secretariat Email: iftomm2015@ntu.edu.tw
General Chair: Prof. Shuo Hung Chang
Email: shchang@ntu.edu.tw
Department of Mechanical Engineering
National Taiwan University, Taiwan
Executive Vice President, ITRI, Hsinchu, Taiwan
Co-Chair: Prof. Marco Ceccarelli
E-mail: ceccarelli@unicas.it
Laboratory of Robotics and Mechatronics
University of Cassino and South Latium, Italy

Taipei City has top wireless broadband coverage in the world. Majority of countries do not need visa to enter Taiwan for a 30 days visit. VISA requirement can be found in www.boca.gov.tw.

Traveling information is available in http://taipeitravel.net/en/

Weather in October is usually comfortable at 21~27°C.

Taipei is easy to access by 200 flights from 56 major cities.

Taipei 101 is the 2nd tallest building in the world with height of 508 meters.

Important Dates:
Full version of the paper should be submitted through the Conference website.
Full Paper submission: 15, Feb. 2015
Provisional decision: 15 Apr. 2015
Final version submission: 25 May 2015
Final decision: 25 Jun. 2015
IFTToMM BODIES AND CONTACTS

General Assembly
The General Assembly is the supreme body of the Federation and determines its policy. It is composed of the Chief Delegates of IFTToMM Organization Members and members of the Executive Council.

Executive Council
The Executive Council manages the affairs of the Federation between the sessions of the General Assembly. It is elected every four years, meets annually, and is composed of the President, Vice-President, Secretary-General, Treasurer, and six ordinary members.

Commissions and Committees
Each Permanent Commission and Technical Committee is composed of a Chairperson, appointed by the Executive Council, a Secretary and members, nominated by the Chairperson and appointed by the Executive Council. A Chairperson shall not serve for more than two terms consecutively. The general goals for the work of the Commissions and Committees are aimed at promoting their fields of interest by attracting researchers and practitioners, including young individuals, in order to:
- define new directions in research and development within their technical areas;
- establish contacts between researchers and engineers;
- initiate and develop bases and procedures for modern problems;
- promote the exchange of information;
- organize national and international symposia, conferences, summer schools, and meetings.

Mission:
To promote research and development in the field of Machines and Mechanisms by theoretical and experimental methods, along with their practical applications

Vision:
To provide leadership for cooperation and development of modern results in the Mechanism and Machine Sciences by assisting and enhancing international collaboration.

For chairs contact address, please look at the IFTToMM web page

- Executive Council (2008-2011):
  Marco Ceccarelli (Italy) – President
  Yoshihiko Nakamura (Japan) – President
  Carlos S. Lopez Cajún (Mexico) – Vice President
  Joseph Rooney (UK) – Secretary General
  Veniamin I. Goldfarb (Russia) – Treasurer
  Datong Qin (China-Beijing)

- Executive Council (2012-2015):
  Yoshihiko Nakamura (Japan) – President
  Veniamin I. Goldfarb (Russia) – Vice President
  Teresa Zielinska (Poland) – Secretary General
  Just Herder (Netherlands) – Treasurer
  Shuo Hung Chang (China-Taipei)
  Burkhard Corves (Germany)
  Jean Pierre Merlet (France)
  Datong Qin (China-Beijing)
  Juan Antonio Carretero (Canada)
  Past-President: Marco Ceccarelli (Italy)

Past-President: Kenneth J. Waldron (USA)