

International Union of Theoretical and Applied Mechanics

IUTAM

Congress Committee

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May 2018 With corrected ICTAM2020 Thematic Sessions list

To: Members of the IUTAM Congress Committee
Members of the IUTAM General Assembly
IUTAM Adhering Organizations
IUTAM Affiliated Organizations

Subject: Nominations re ICTAM2020, in Milan, Italy, August 23-28, 2020
Nominations for election to the Congress Committee
First call for proposals to host ICTAM2024

Dear Colleague,

The Congress Committee, in close consultation with our Italian hosts, is planning the 25th International Congress of Theoretical and Applied Mechanics to be held in Milan, Italy, August 23-28, 2020. The Executive Committee of the Congress Committee (XCCC) and the Bureau met in Milan last year, June 9-12, 2017, and completed a number of tasks. These included:

1. Selection of 6 topical mini-symposia for ICTAM2020 from numerous proposals made.
2. Nominations of co-chairs for these 6 Mini-symposia.
3. Convergence on a list of Thematic Sessions for ICTAM2020.

Many of you had submitted suggestions in response to my solicitation regarding Mini-symposia. The list on which the Executive Committee converged is as follows:

Mini-symposia for ICTAM2020

- (1) Modeling and Controlling Turbulent Shear Flows**
- (2) Local Mechanics of Climate Processes**
- (3) Biological Fluid-Structure Interaction at the Microscale**
- (4) Nonlinear Dynamics for Design**
- (5) Mechanics of Additive Manufacturing**
- (6) Mechanics of C-Allotropic Materials and Structures**

Co-chairs for all of these were suggested. The invitation process is complete and the Co-chairs are as follows:

- (1) Modeling and Controlling Turbulent Shear Flows: Ivan Marusic & Beverley McKeon
- (2) Local Mechanics of Climate Processes: Eberhard Bodenschatz & John Wettlaufer
- (3) Biological Fluid-Structure Interaction at Microscale: Prosenjit Bagchi & Anne-Virginie Salsac

- (4) Nonlinear Dynamics for Design: Stefano Lenci & Remco Leine
- (5) Mechanics of Additive Manufacturing: Ferdinando Auricchio & Matthew Begley
- (6) Mechanics of C-Allotropic Materials and Structures: Julia Greer & Roberto Paroni

The XCCC also converged on a list of Thematic Sessions. I have attached the list of Thematic Sessions for ICTAM2020.

Finally, the XCCC agreed on a slate of candidates for the International Papers Committee (IPC). These six individuals, three in fluid mechanics and three in solid mechanics, will take on the not insignificant task of judging papers for final acceptance. In keeping with IUTAM tradition, the names of the members of the IPC are not generally disclosed in order to avoid unwanted and unwarranted approaches.

I write now on behalf of the Congress Committee to solicit your input on the following issues:

- The *Opening* and *Closing Lecturers* for ICTAM2020
- The *Sectional Lecturers* at ICTAM2020
- The *chairs* of the various *Thematic Sessions* at ICTAM2020
- *New members* of the *Congress Committee* for the period starting in 2018
- *Bids* for *ICTAM2024*

I ask you to consider these issues and **submit recommendations to me by June 15, 2018**. Further details and comments concerning each of these bullets is given below.

Opening and Closing Lecturers. Please suggest suitable names for these two important lectures. At ICTAM2020 we expect the opening lecture to be on solid mechanics, and the closing lecture to be on fluid mechanics. Please let us know in a few words why you believe the individual(s) you nominate have the stature to give one of these lectures, what their general topical area might be, and whether you have heard the individual lecture in English, maintaining the interest of a large, heterogeneous audience.

Sectional Lecturers. Please nominate several, again with an indication of area, stature and ability to give a good lecture in English to a large audience with diverse backgrounds.

For as many **Thematic Sessions** as you can, please provide names of suitable co-chairs. We strive for co-chairs who are recognized in the topical area of the Thematic Session, and who are engaged and active in their field so that they can convince colleagues to send in contributions of high quality. Representatives of IUTAM's affiliated organizations are also asked if there are Thematic Sessions on the list that their organization is interested in co-sponsoring. We would then list this in the Program in regard to such co-sponsored Thematic Sessions. If a Thematic Session is co-sponsored with an affiliated organization, nominations of individuals who are active in the affiliated organization to be co-chairs of the Thematic Session would be most welcome.

Nominations to Membership of the Congress Committee. Please provide such nominations. I append a list of the membership for the period 2016-2018 with the year of termination of the current appointment and an indication of how many terms the member has served in his/her current capacity. By way of example, I have been a member of the Committee since 2008, where I served one 4-year term until 2012. In 2012 I was elected Secretary of the Congress Committee and thus also became a member of the Executive Committee. I was re-elected as Secretary in 2016 and will serve in my 2nd term of this office until 2020. Hence, in my entry the column "Elected" states 2008, "Term" says 2, and "Term ends" is 2020. Those whose 2nd term ends in 2018 will cycle off the Congress Committee after the Boston meeting and must be replaced. The line for these individuals is in red.

In the past, re-election to a second four-year term was essentially automatic. Prior to 2010, as you may know, the Congress Committee re-examined its rules of operation, including those pertaining to nomination and election, and decided that eligibility for a second term is not synonymous with

nomination. Evidence of engagement with and activity on the Committee may be considered when deciding on nominations for a second term; nominations for a second term will be made by the Congress Committee Nominations Subcommittee, so there is no need to submit any nominations for those currently serving on the Congress Committee. Individuals on the Congress Committee who are coming to the end of their 1st term are depicted in green type in the attachment.

Continuing members are shown in black in the attachment, and *ex officio* members are in purple.

For nominations for new members of the Congress Committee to serve for the period 2018-2022, the Nominations Subcommittee requests the following information:

- 1) Name of the nominee.
- 2) Current institutional affiliation of the nominee.
- 3) A short CV (a half page is fine but maximum of two pages in total).

Although the primary criterion for election to the Congress Committee is stature within the mechanics community, we do strive for some balance of representation both in terms of countries and in terms of fields of mechanics. Thus, as we elect new members, the nature of the vacancies created by departing members usually plays a role in which individuals are selected.

Since the General Assembly this year takes place in July, and since the Nominations Subcommittee needs some time to rank the nominations received for the Congress Committee, I ask you to please adhere to the June 15, 2018, deadline. Submissions received after that time may not be considered fully by the Nominations Subcommittee.

Preliminary bids to host ICTAM2024. We are now beginning to solicit such bids and *we request preliminary expressions of interest*. If you know of individuals who have expressed an interest in taking the lead in hosting an ICTAM, but who are not members of the groups to which this letter is being sent, I would greatly appreciate if you would notify them that preliminary expressions of interest are appropriate so that they can be available to Congress Committee members at the General Assembly meeting in Boston in July 2018.

Proposals to host an ICTAM have been increasing in complexity and detail. Items that tend to weigh on the minds of the members of the Congress Committee are: desirability and suitability of the venue (location, access, expense); expertise of the proposing team in running large scientific meetings; general standing of the scientific community of the proposing nation in solid mechanics, fluid mechanics and dynamics; personalities and perceived effectiveness of two key individuals, namely the proposed congress president and its secretary-general; budget; congress plan; social events. The issue of continental balance is relevant; by 2024 the previous five congresses will have been in Europe, Australia, Asia, North America and again Europe. In the end, however, the Congress Committee is undoubtedly swayed more by a strong proposal than by anything else.

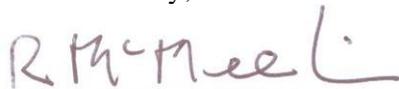
The Congress Committee is seeking only preliminary expressions of interest at this stage and final bids will not be due until closer to ICTAM2020 in Milan; the decision on where to hold ICTAM2024 will be made at the Milan Congress. The points mentioned above in the previous paragraph should be considered by those submitting preliminary expressions of interest and some information on them would be useful. However, no decision will be made at the Boston meeting of the General Assembly, and the final selection of the location for ICTAM2024 will be based on the final bids submitted after the Boston meeting but before ICTAM2020. The call for final bids will be made in due course closer to ICTAM2020.

I now present some information that should be of use to potential bidders for ICTAM2024. The numbers attending ICTAM tends to range from upwards of 1000 to 1700 or higher depending on the location. The

number of papers presented at the last five congresses (ICTAM2000 through ICTAM2016) has ranged from 900 to nearly 1700 including posters. It is normal for student participants to be given a reduced rate for registration at ICTAM, and IUTAM receives a levy from each registration other than that of students and that of accompanying persons. For ICTAM2020 this levy has been set at \$44US. ICTAMs are also encouraged to make a voluntary contribution of \$5,000US to support the IUTAM General Assembly meeting 2 years later. The Congress should also provide some support for participants coming from developing countries and younger scientists. In the recent past a sum of the order of \$75,000US has been budgeted for this purpose. In addition, three years before ICTAM the organizers host a meeting of the Bureau and the XCCC (in the case of ICTAM2024 this will be in 2021) with the hosts paying for local expenses (hotel, meals and a room for 2 days of meetings with a tour of the congress venue on the 3rd day). The organizers (President and Secretary-General of the Congress) attend the IUTAM General Assembly meeting 2 years before the event (in the case of ICTAM2024 this General Assembly will be in 2022). This meeting is normally held in the country of the current President of IUTAM and the travel expenses of the ICTAM2024 organizers must be borne from the budget of ICTAM2024. The organizers of ICTAM host and pay for the International Papers Committee meeting that will be held for three full days in Spring 2024; the committee consists of 7 members including the Congress Committee Secretary. In addition, the budget of ICTAM must support meetings of the General Assembly, Bureau, Congress Committee and XCCC at the ICTAM they organize, with two meetings of each body held during the week of ICTAM, with most of them involving a meal.

Thank you for your consideration of the material in this letter and I look forward to your input.

Yours sincerely,

A handwritten signature in purple ink that reads "R McMeeking". The signature is written in a cursive style with a large initial "R" and a long horizontal stroke at the end.

Robert M. McMeeking
Secretary, Congress Committee

Encls:

- Attachment 1: Thematic Sessions list for ICTAM2020 (file Thematic Sessions at ICTAM2020.pdf)
- Attachment 2: Current members of the Congress Committee (file CC members 2016-2018.pdf)