



IUTAM GENERAL ASSEMBLY

Summary Record of the
General Assembly of IUTAM
in Providence, Rhode Island, USA, on 12 and 13 August 2006

The General Assembly of IUTAM convened in Room 001 of the Salomon Building on the Brown University Campus. The schedule of sessions was as follows:

Saturday 12 August 2006

14.00 – 17.30 h: *General Assembly: 1st session*

Sunday 13 August 2006

10.00 – 12.00 h *General Assembly, Lectures*

10.00 – 10.50 h *H. Gao – Multiscale cohesive laws: Inspiration from hierarchical adhesion systems in nature*

10.50 – 11.10 h *Break*

11.10 – 12.00 h *G. Karniadakis – Predictability and uncertainty in computational mechanics*

14.00 – 17.30 h: *General Assembly: 2nd session*

Attendance:

Members with voting rights:

A. Acrivos (USA, Member-at-Large), H. Aref (USA), Y. Bai (China), T. Belytschko (USA), A. Benallal (France), L. Bevilacqua (Brazil), B. Boley (USA, Member-at-Large), R. de Borst (Netherlands), P. Boulanger (Belgium), D. van Campen (Netherlands), N. Cristescu (Romania), J. Denier (Australia), L. Dias (France), J. Dual (Switzerland), P. Eberhard (Germany), J. Engelbrecht (Estonia), B. Freund (USA), I. Gledhill (South Africa), I. Goldhirsch (Israel), N.K. Gupta (India), W. Gutkowski (Poland), D. Henningson (Sweden), C. Herakovich (USA), S. Kaliszky (Hungary), T. Kambe (Japan), B. Karihaloo (UK), A. Kluwick (Austria), G. Leal (USA), B. Lundberg (Sweden), C. Ma (China Taipei), G. Maier (Italy), K. Moffatt (UK), Z. Momeh (Egypt), P. Monkewitz, M. Morozov (Russia), M. Määttänen (Finland), F. Niordson (Denmark, Member-at-Large), N. Olhoff (Denmark), P. O'Donoghue (Ireland), J. Paavola (Finland), T. Pedley (UK), P. Podio-Guidugli (Italy), W. Schiehlen (Germany, Member-at-Large), S. Shrivastava (Canada), T. Tatsumi (Japan, Member-at-Large), E. Tuck (Australia), G. Turkalj (Croatia), E. Watanabe (Japan), G. Weir (New Zealand), W.C. Wang

1 (China-Taipei), L. van Wijngaarden (Netherlands, Member-at-Large), W. Yang
2 (China), A. Zaoui (France), Z. Zheng (China)

3
4 *Non-voting observers:*

5 J. Achenbach (USA; chair Solid Mechanics Panel), D. Barthes-Biesel (France,
6 chair WP-6), S. Crandall (USA; repres. of ICA), M. Crocker (USA; repres. of
7 IIAV), G. Rozvany (Hungary; repres. of ISSMO), B. Schrefler (Italy, repress. Of
8 CISM)

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10 *Members with voting rights represented by proxies:*

11 O. Bostrom (Sweden), represented by Lundberg
12 E. Cui (China), represented by Z. Zheng
13 E. Dick (Belgium), represented by F. Boulanger
14 J. Hansen (Canada), represented by S. Shrivastava
15 M. Hayes (Ireland), represented by D. van Campen
16 Ph. Hodge (USA, Member-at-Large), represented by B. Freund
17 T. Kobayashi (Japan), represented by T. Kambe
18 W. Knauss (USA), represented by T. Belytschko
19 C. Miehe (Germany), represented by P. Eberhard
20 S. Savage (Canada), represented by S. Shrivastava
21 W. Schröder (Germany), represented by P. Eberhard
22 A. van Steenhoven (Netherlands), represented by L. van Wijngaarden
23 V. Tamuzs (Latvia), represented by J. Engelbrecht
24 A. Thess (Germany), represented by P. Eberhard
25 K. Uetani (Japan), represented by T. Kambe
26 D. Vandepitte (Belgium), represented by F. Boulanger
27 F. Ziegler (Austria, Member-at-Large), represented by A. Kluwick

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30 **Agenda Saturday 12 August 2006, 14.00 – 17.30 h**

- 31 1. Opening of the meeting by the President
32 Minutes of the General Assembly in Warsaw (Poland), on 17 and 18 August
33 2004 (Report 2004, pp. 81-107)
34 2. Report by the Secretary-General
35 3. Report by the Treasurer on financial matters
36 4. Preliminary discussion on annual dues
37 5. Report by the Secretary of the Congress Committee
38 6. Matters concerning Adhering Organizations
39 6.1. Serbia and Montenegro
40 7. Matters concerning Affiliated Organizations
41 7.1. ICA (International Commission for Acoustics)
42 8. Reports and preliminary discussions on Working Parties
43 8.1 Chair Reports on the Working Parties
44 8.2 Change of Chairpersons of several Working Parties
45 9. Report on relations with ICSU
46 10. Matters concerning Inter-Union Committees
47 11. Matters concerning non-ICSU organizations
48 12. Preliminary discussion on Associate Membership

- 1 13. Proposal for Electoral Committee
- 2 14. Preliminary discussion on future IUTAM Symposia. Reports from Symposia
- 3 Panels
- 4 15. Preliminary discussion on future International Summer Schools on
- 5 Mechanics
- 6 16. Proposal for an extra IUTAM Summer school in 2007
- 7 17. Preliminary discussion on appointment terms of members of Symposia
- 8 Panels

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11 **Agenda Sunday 13 August 2006, 14.00 – 17.30 h**

- 12 18. Continued discussion and final decision regarding future IUTAM Symposia
- 13 19. Continued discussion and final decision regarding future International
- 14 Summer Schools on Mechanics
- 15 20. Continued discussion and final decision regarding annual dues
- 16 21. Continued discussion and final decision regarding Working Parties
- 17 22. Continued discussion and final decision regarding Associate Membership
- 18 23. Election of members of the Electoral Committee
- 19 24. Election of members of the Congress Committee of IUTAM
- 20 25. Continued discussion and final decision on appointment terms of members
- 21 of Symposia Panels, including election of one new member on each Panel
- 22 26. Date and venue of the next General Assembly
- 23 27. Any other business

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27 **Proceedings of the General Assembly**

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29 **Item 1 – Opening of the meeting by the President**

30 The President, Professor L.B. Freund, greeted all members and observers
31 welcome. The Participants were also welcomed by Dr. Clyde Briant, Vice-
32 President of Research at Brown University and former Dean of Engineering.
33 Then, the President formally opened the meeting and welcomed in particular four
34 past Presidents of IUTAM: Professors K. Moffatt, F. Niordson, W. Schiehlen and
35 L. van Wijngaarden.

36 The minutes of the General Assembly held in Warsaw, Poland, in 2004 were
37 adopted.

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39 **Item 2 – Report by the Secretary-General**

40 The Secretary-General, Professor D.H. van Campen, submitted the following
41 report to the General Assembly on the activities of IUTAM since the last General
42 Assembly in Cambridge, USA, on 17 and 18 August 2002:

43
44 Mr. President, Dear Colleagues,

45 Two years have passed since our last General Assembly in Warsaw, Poland.
46 During that time I have had the sad duty of recording the deaths of two of our
47 distinguished colleagues and friends who have served our Union. May I ask
48 all of you to stand in honor of our deceased, while I read their names.

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Professor Isao Imai (read by Professor Tomomasa Tatsumi).
Professor Isao Imai passed away on 24 October 2004, at the age of 90 by cardiac insufficiency. He was born in 1914 in Ta-lien (now Lu-ta), China, and grew up in Kobe, Japan. He graduated from the University of Tokyo in 1936 and started his academic career in the Department of Physics, Faculty of Science, of the same University. At that time 1936, "Fluid Mechanics" was in a brilliant state of innovation. Classical "Hydrodynamics" had already been in a deadlock, and new research fields such as "High-speed aerodynamics", "Boundary layer theory" and "Statistical theory of turbulence" had opened a new era of "Modern Fluid Dynamics".

Professor Imai's early works on "Wing theory of arbitrary cross-section", "Transonic similarity of high-speed flows" and "Theory of slow viscous flows" are all excellent contributions to these "Modern Fluid Dynamics". In recognition of these outstanding achievements, he has been awarded "The Prize of Japan Academy" together with "The Imperial Award" in 1959. One can easily recognize that prominent feature of Professor Imai's works lies in their physical generality and mathematical elegance. These characteristic features of his research have been further extended to new research fields, like "Magneto Hydrodynamics (MHD)" and "Generalized Functions". Actually, his contributions to these subjects have resulted in the basic reformulation of the theories of "Electro-magnetism" and "Hyper-function" from the view point of "Fluid Dynamics".

Professor Imai's activity has also been displayed in several administrative posts of academic institutions such as "President of the Japan Physical Society", "President of the Japan Society of Fluid Mechanics", "Vice-President of the International Union of Pure and Applied Physics (IUPAP)", and "Member of the Bureau of IUTAM". In Appreciation of these academic services, he has been honored as the "The Person of Distinguished Services in Culture" in 1979 and awarded "The Order of Cultural Merit" in 1988 and "The First Order of Merit" in 1992.

The last day of Professor Imai's life unexpectedly came just two days before the opening of the IUTAM Symposium on "Elementary Vortices and Coherent Structures: Significance in Turbulence Dynamics", held from 26-28 October 2004 in Kyoto, to which his presence had been expected. During the Opening Session of the Symposium, a tribute to him has been paid by Professor Keith Moffatt, President of IUTAM at that time, and a silent prayer has been offered to him by all participants of the Session.

Professor Wladyslaw Fiszdon of Poland died on 25 October 2004. He received his aviaional engineering education at the Sorbonne University and the Ecole Nationale Superieure de 'l Aeronautique in France, and subsequently obtained exceptional professional experience in the UK during the Second World war.

Professor Fiszdon was internationally recognized for his many scholarly contributions to a variety of fields including the interaction between oscillatory shock wave and boundary layer, flows in rarefied gases, the mechanics of

1 liquid helium along with the formation of vortices, and the evolution of heat
2 pulses with a special fascination for the problem of quantum physics.
3 Professor Fiszdon was Vice-Rector of the Warsaw University and also a
4 member of the Presidium of the Polish Academy of Sciences.
5 He organized a series of Biennial Symposia on Advanced Problems and
6 Methods in Fluid Mechanics, which attracted the international elite of Eastern
7 and Western countries in a period when the possibility of co-operation
8 between scientists from countries of both blocks was limited.
9 Professor Fiszdon was Member-at-Large of IUTAM since 1992. He will be
10 missed by his friends and the scientific community for his spirit and passion
11 for work along with his scientific contributions.

12
13 Our sympathy and grateful thoughts for what they did for our Union go to their
14 families and their nations.

15 16 *Adhering Organizations*

17 There are now 49 Adhering Organizations.
18 Following a decision taken by the previous General Assembly in Warsaw, the
19 membership of Morocco has been suspended.
20 In the past year there have been contacts with Armenia and Lithuania, which
21 might result in the establishment of an Adhering Organization there.

22 23 *Affiliated Organizations*

24 The reports presented by the Affiliated Organizations in the past two years are
25 included in the IUTAM Reports 2004 and 2005.
26 The developments with respect to CACOFD and ICA will be addressed under
27 item 7 of the agenda. Some additional matters concerning the Affiliated
28 Organizations are mentioned below.

29 30 *Representation with Affiliated Organizations*

31 *AFMC.* The Bureau appointed Prof. Heng Zhou, past Vice-President of AFMC
32 and professor at Tianjin University, Tianjin, China, as the new representative
33 of IUTAM in AFMC. He succeeds Professor Isao Imai in this capacity.
34 *CISM.* Since 1985 Professor Leen van Wijngaarden has represented IUTAM
35 in CISM. He has informed the Bureau that time has come to be replaced in
36 this capacity. The Bureau appointed Prof. Keith Moffatt as the new
37 representative of IUTAM in CISM.

38 39 *Working Parties*

40 Following the decisions taken by the previous General Assembly, the Bureau
41 has implemented the principle of rotating chairmanship within the existing
42 membership of the WPs. The consequences will be dealt with under item 8 of
43 the agenda.

44 45 *Symposia and Summer Schools*

46 There were nine IUTAM Symposia in 2004, which were all attended well. The
47 average attendance was 70. Additionally, there was one Summer School in
48 2004, in Beijing, China, with over 90 participants. In 2005 there were five

1 IUTAM Symposia, which were all attended well. The average attendance was
2 63. That year, there was one Summer School, in CISM, Udine, with more than
3 50 participants.

4 On request by the organizers, two Symposia from the 2004/2005 package
5 have been shifted to 2006.

6 For 2006 nine IUTAM Symposia are being organized, whereas seven
7 Symposia are scheduled for 2007.

8 9 *Sponsorship*

10 The Bureau agreed to co-sponsor without financial support the Fifth
11 International Conference on Nonlinear Mechanics, which will be held in
12 Shanghai, China, from 11-14 June 2007.

13 For this event the procedure for co-sponsoring by IUTAM of non-IUTAM
14 events as set by the Bureau has been applied.

15 16 *Closure of Assessment Actions*

17 Following a decision by the previous General Assembly, a letter has been
18 written to the Assessment Panel, indicating that the assessment actions have
19 been closed and thanking the Panel, and in particular its Chairman and
20 Secretary, for their valuable work.

21 22 *IUTAM website*

23 The IUTAM website continues to run smoothly and it is of great help to the
24 Secretary-General. The major website developments over the past two years
25 have been described in the IUTAM Newsletters. Besides keeping the List of
26 Addresses, the Events Calendars and the data on the Adhering Orgs, the
27 Affiliated Orgs and the Working Parties up to date, these developments mainly
28 are related to the implementation of the decisions taken by the previous
29 General Assembly and the restructuring of a number of web-pages.

30 31 *IUTAM Newsletter*

32 The revived IUTAM Newsletter is appearing twice a year since 2002.

33 34 *Publications*

35 After some transition problems related to the merger from Kluwer with
36 Springer, the publication of Symposia Proceedings is gradually running
37 smoothly. The after-sales of the Symposia Proceedings are developing
38 favorably.

39 Currently, I am investigating with the representative of Springer if the
40 Symposium Proceedings can be brought into the Science Citation Index.

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43 D.H. van Campen, Secretary-General

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45 The report by the Secretary-General was adopted.

46 The President thanked the Secretary-General for his report.

1 **Item 3 – Report by the Treasurer on financial matters**

2 The Treasurer, Professor J. Engelbrecht, submitted the following report to the
3 General Assembly.

4
5 Mr. President and colleagues in the General Assembly,

6
7 With reference to the Accountants's Report 2005, IUTAM's assets as of 31
8 December 2005 stood at 411,920 USD. This reflects of a budget surplus of
9 16,704 USD for the year that was accompanied by the loss from the
10 translations of other currencies (euros), so the final excess of cash revenues
11 collected over expenses paid was 3,254 USD. This however balanced our
12 previous gains from such transactions.

13
14 The main source of revenue for the Union is subscription dues. Adhering
15 organizations which are represented in the General Assembly continue to pay
16 dues on a more or less regular schedule. The total income from dues in 2005
17 was 95,744 USD which included also 19,042 USD for the previous years. In
18 2006, the sum of dues collected as of June 30, is 64,233 USD which is about
19 65% of the total sum of 99,216 USD. Regrettably, there are a small number
20 adhering organizations for which dues are seriously in arrears. Several other
21 Unions in the ICSU family are more strict with such cases. I propose to the
22 General Assembly that in the future we shall add to the invoices the request to
23 transfer the dues before June 30 of the current year.

24
25 The cash reserves of the Union earned interest in the amount of 5,319 USD in
26 2005 (cf 5,761 USD in 2004). This amount is derived from saving accounts in
27 banks in the United States and in the Netherlands.

28
29 The level of support of symposia and summer schools sponsored by the
30 Union has been 5,000 USD per such event. During 2005, awards were
31 provided to four symposia and one summer school. A grant of 15,000 USD is
32 still earmarked for ICTAM 2008 from closing accounts of ICTAM 2004 as a
33 seed money but not still paid (see financial report in 2004). In 2006, three
34 symposia and one summer school were awarded as of June 30.

35
36 The cost of travel for members of the Bureau and of the Executive Committee
37 of the Congress Committee totalled 34,430 USD for 2005, influenced by the
38 distance to the venue of the ICTAM 2008.

39
40 The cost of the administration is principally the cost of operating the office of
41 Secretary General and totalled 23,475 USD in 2005. This is considerably less
42 compared to the cost during the previous years.

43
44 The financial records of the Union are subject to an audit by an independent
45 accounting firm each year. In recent years, this audit has been conducted by
46 UWP UNITREU GmbH in Eschborn, Germany with great care and
47 helpfulness. A formal report and certification was submitted to ICSU by March

1 15th as expected. IUTAM also pays annual dues (2704 USD in 2006) to ICSU
2 as a scientific member.

3
4 The amount shown as bank fees represents per transaction costs charged by
5 banks for receiving dues payments, arranging symposium awards and
6 conducting other business. These fees have been pretty stable, except in
7 2004 due to the ICSU grant.

8
9 In summary, the financial state of the Union has remained stable for some
10 years. The successful ICTAM 2000 and ICTAM 2004 have given a good
11 surplus to the accounts of the Union. The incomes of the Union during the last
12 years have exceeded the expenses, which gives a confidence for the future.

13
14 Finally, it is a pleasure to acknowledge the help and advice provide by
15 assistant treasurers Professor Ben Freund and Professor Dick van Campen.
16 The accounting tables introduced by the previous Treasurer professor Ben
17 Freund make the accounting very clear and efficient.

18
19
20 Respectfully submitted,
21 J. Engelbrecht, Treasurer
22

23 The report by the Treasurer was adopted.
24 The President thanked the Treasurer for his report.

25
26 Prof. L. van Wijngaarden questioned about how to deal with countries that are in
27 arrears for several years. The President responded that there is an established
28 procedure to deal with this. The Treasurer starts to discuss this with the local
29 contact person and the Representative of the country in the General Assembly. If
30 this does not help, then the Secretary-General sends a formal letter to the
31 Adhering Organization, indicating that their membership is at risk.

32
33 Prof. B. Schrefler asked what happens if a country is suspended and re-applies
34 after, e.g. ten years. The Treasurer and the President responded that it is usually
35 another group that re-applies, whereas there may sometimes be political
36 changes in the country at hand. All of this results in a completely new start.

37
38 Prof. A. Acrivos urged the Bureau to get more interest out of the saving accounts.
39

40
41 **Item 4 – Preliminary discussion on annual dues**

42 Following his report the Treasurer led a brief discussion on the annual dues as
43 follows:
44

45 The annual dues are based on the average OECD-index. The latest OECD
46 figures as of May 2006 show an increase of consumer prices in the OECD area
47 by 2.6%- 2.8%, being certainly different for different countries. In the USA, for
48 example, the CPI increased over 3%, while in Japan the increase has been

1 considerably less (0.3%-0.4 %). The trend is increasing after the minimum in
2 2004 (less than 2%).

3
4 Our dues have developed as follows (see previous reports):

5

6 year	2004	2005	2006	2007
7 dues, USD	656	670	676	696

8

9 The increase of dues has been less than the OECD-index but they have followed
10 an almost linear increase except in 2003-2004, when due to the Euro-zone
11 difficulties it was decided to keep the level of the 2003 dues for 2004.

12 Based on the general trends, the Treasurer proposed to increase the dues for
13 2008 with 2% to 710 USD and those for 2009 with a further 2.2% to 726 USD.

14 For those adhering organizations who prefer paying in equal amounts, the dues
15 for 2008 and 2009 are then 718 USD.

16
17 *It was noted that the final decision regarding annual dues would be made in the*
18 *second session of the General Assembly, see item 20 below.*

19
20 Profs. B. Boley and W. Schiehlen remarked that IUTAM has been quite restrictive
21 with respect to the number of Symposia and that, given the current financial
22 situation, there could be somewhat more flexibility in this respect. Then, the
23 quality of the proposals could play a role in deciding on their acceptance.

24 The Treasurer agreed with this viewpoint.

25
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27 **Item 5 – Report by the Secretary of the Congress Committee**

28 The Secretary of the Congress Committee, Professor T.J. Pedley, submitted the
29 following report:

30
31 Mr President and Colleagues,

32 It is my job at this point to report to you on the progress of the planning and
33 preparations for the 22nd ICTAM in Adelaide, Australia, 24-30 August 2008,
34 and in particular to tell you of the decisions made by the Congress Committee
35 (CC) at its meeting yesterday morning.

36
37 1. First, I can report that the Local Organizing Committee (LOC), led by the
38 Congress President, Professor Ernie Tuck, and its Secretary-General, Dr. Jim
39 Denier, has everything well in hand for the 22nd ICTAM. The Executive of the
40 Congress Committee (XCCC) visited Adelaide in August 2005 and were very
41 pleased with the facilities, and the full CC was impressed by the LOC's report
42 yesterday. You will already have seen the preliminary announcement of the
43 Congress, and many of you will have visited the Congress website. The
44 structure of the Congress will be the same as the 21st ICTAM in Warsaw.

45
46 2. The first item for the CC's decision was to select opening and closing
47 lecturers, from a shortlist prepared by the XCCC from a large number of

1 suggestions sent in by members of the CC, the GA and other relevant bodies.
2 The results of the CC vote was to select **yet to be adapted**

- 3
- 4 · as Opening Lecturer: Professor ... (...)
- 5 · as Closing Lecturer: Professor ... (...)
- 6

7 3. At its meeting in 2005, the XCCC selected 6 topics for Mini-symposia, which
8 are given below with the names of those who have agreed to serve as Chairs
9 and co-Chairs. The organizers of each Mini-symposium have the right to
10 nominate one Sectional Lecturer to speak on the topic of that Mini-
11 symposium, and where these nominations have been received they are given
12 below. In addition the organizers will be arranging for three one-hour
13 introductory lectures in each Mini-symposium. **yet to be adapted**

14
15 *Mini-symposia* **yet to be checked**

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17 *MS 01. Cohesive zone models of fracture and failure*

18 Co-chairs:
19 Professor A. Carpintieri (Italy)
20 Professor T. Siegmund (USA)

21
22 *MS 02. Multi-component modeling on different scales*

23 Co-chairs:
24 Professor H. Petryk (Poland)
25 Professor F. Rose (Australia)

26
27 *MS 03. Dynamics and control of walking*

28 Co-chairs:
29 Professor F. Pfeiffer
30 Professor H. Yabuno (Japan)

31
32 *MS 04. Classical and quantum vortex rings*

33 Co-chairs:
34 Professor H. Aref (USA)
35 Professor C. Barenghi (UK)

36
37 *MS 05 Fluid dynamics of animal swimming and flying*

38 Co-chairs:
39 Professor J. Blake (UK)
40 Dr. J. Wang (USA)

41
42 *MS 06 Mechanics of colloidal Systems*

43 Co-chairs:
44 Dr. D. Langevin (France)
45 Professor P. Pusey (UK)

46
47 4. The CC also selected the names of 12 more scientists who will be invited to
48 give Sectional Lectures, with 4 reserves. These names are given below. My

1 own most urgent job after this meeting is to issue invitations to all Sectional
2 Lecturers, because we wish to include their names on the First
3 Announcement of the Congress, to be produced during October or November
4 of this year. **Yet to be adapted**

5
6 *Sectional Lecturers* **Yet to be adapted**

7

Solids

H-J Gao (USA/Germany)
T J R Hughes (USA)
P Ladeveze (France)
A Neistadt (Russia)
R W Ogden (UK)

Fluids

K Bajer (Poland)
J F Brady (USA)
R Keunings (Belgium)
M Lesieur (France)
E A Spiegel (USA)

Reserves:

J C Ambrosio (Portugal)
Z Bazant (USA)

Reserves:

J N Sørensen (Denmark)
V Zakharov (Russia)

1 *General (Fluids/Solids)*

2 H Swinney (USA)
3 E Kreuzer (Germany)

4

5 5. Next I should report that the CC has also selected the names of those to be
6 invited as (equal) co-chairs of all 48 Prenominated Sessions (PNS), with one
7 reserve in each case. **Yet to be checked**

8

9 6. Following the procedure adopted in Warsaw, the CC is to allow the Co-chairs
10 of Mini-symposia to invite a maximum of three regular speakers, to go into
11 contributed lecture slots, in addition to be introductory lecturers, without the
12 possibility of being over-ruled by the International Papers Committee.
13 As a new feature the PNS Co-chairs will be allowed to invite a maximum of
14 two regular speakers, to go into contributed lecture slots, without the
15 possibility of being over-ruled by the International Papers Committee. **Yet to**
16 **be checked and adapted**

17

18 7. I should announce to the GA that we have had bids to host ICTAM 2012 from
19 the cities of Montreal, Canada and Beijing, China, and the CC heard excellent
20 presentations from representatives of both these cities. I have also had an
21 indication that a bid will come from Edinburg, UK. The CC will make a
22 decision on the venue for the 2012 Congress during the Adelaide Congress.

23

24 8. Finally, the CC has drawn up a shortlist of candidates for election by the GA
25 to serve on the CC in place of those who have come to the end of their terms.
26 There are 7 people who have served just one four-year term on the CC, and
27 they should be re-elected automatically. These are Professors T. Belytschko
28 (USA, D.E. Beskos (Greece), F. Ellyin (Canada), M.A. Hayes (Ireland), E.J.
29 Kreuzer (Germany), E.O. Tuck (Australia), M.G. Veklarde (Spain). However,

1 Prof. Belytschko has indicated that he is not available to serve for a second
2 term. The General Assembly is asked to confirm the re-election of the others.

3
4 There are 6 CC members who have served more than one term and who
5 would normally retire from the CC. These are Professors N.A. Fleck (UK), A.
6 Kluwick (Austria), V.V. Kozlov (Russia), B.A. Schrefler (Italy), K. Sobczyk
7 (Poland), E. Wayanabe (Japan). However, Prof. Kluwick is on the IUTAM
8 Bureau and Prof Schrefler is on the XCCC, so both should be re-elected
9 automatically. I am sure we would like to record our gratitude to the remaining
10 retiring members for their cooperation in the work of the CC over at least 8
11 years.

12
13 Members of the GA have to vote for 5 of a shortlist of 11 candidates.

14
15 T.J. Pedley, Secretary Congress Committee

16
17 The report by the Secretary of the Congress Committee was adopted.
18 The President thanked the Secretary for his report.

19
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21 **Item 6 – Matters concerning Adhering Organizations**

22 **6.1. Serbia and Montenegro**

23 Recently, the Bureau has been informed that, by a decision of their
24 Assembly, the name of the Yugoslav Society of Mechanics has been
25 changed into Serbian Society of Mechanics. In fact, this change is due to
26 the political changes in Serbia and Montenegro, whereas the group of
27 scientists involved remains the same.

28
29 *It was agreed to accept the Serbian Adhering Organization under the new*
30 *name.*

31
32
33 **Item 7 – Matters concerning Affiliated Organizations**

34 **7.1. CACOFD**

35 During the Bureau meetings in Warsaw (August 2004) and Adelaide
36 (August 2005) the current scope of CACOFD has been discussed. It was
37 concluded that this scope is too small and that CACOFD should include
38 both fluids and solids in its scope, whereas it should also expand to cover
39 the Latin-American region. Following those discussions, CACOFD is in the
40 process of transforming itself into a new organization, to be named
41 LACCOTAM: Latin American and Caribbean Congress of Theoretical and
42 Applied Mechanics. In 2008 LACCOTAM wants to organize its first
43 Congress under the new name.

44 The Secretary-General has received a written report on the transformation
45 of CACOFD to LACCOTAM including the proposed Statutes of
46 LACCOTAM. This report has been enclosed in the material distributed to
47 the General Assembly prior to the meeting.

1 *It was agreed to support the transition from CACOFD to LACCOTAM,*
2 *provided this transition is supported by the Adhering Organizations from the*
3 *Latin American countries Argentina, Brazil and Chile through their*
4 *representatives. The Secretary-General should write letters on this matter*
5 *to the representatives from these Adhering Organizations.*

6
7 **7.2. ICA (International Commission for Acoustics)**

8 ICSU has informed the Secretary-General that last year ICA applied for
9 admission as Scientific Union Member of ICSU. The Executive Board of
10 ICSU did not feel that this was appropriate but suggested that they would
11 view favourably an application from ICA for Scientific Associate status so
12 long as no objections were received and the requisite letters of support
13 subsequently obtained.

14
15 Professor S. Crandall, the representative of ICA in IUTAM, presented some
16 transparencies with facts and figures on the case.

17
18 The President pointed out that the Bureau proposes to the General
19 Assembly to support the application from ICA for Scientific Associate status
20 within ICSU.

21
22 *The General Assembly agreed by substantial majority to support the*
23 *application of ICA for Scientific Associate Status within ICSU.*
24 *The Secretary-General should inform ICSU on this.*

25
26
27 **Item 8 – Reports and preliminary discussion on Working Parties**

28 **8.1. Reports on the Working Parties**

29 The Secretary-General has received reports from the WPs 1, 3, 5, 6, 7, 8
30 and 9. Last year the WP-2 produced an extensive status report. All reports
31 mentioned have been enclosed to the material distributed to the General
32 Assembly.

33
34 Professor L. van Wijngaarden remarked that he feels that IUTAM does not
35 take advantage of the Working Parties to a sufficient extent. Most Working
36 Parties are doing an excellent job. Because the Working Parties are active
37 in tracing new fields, they should also give recommendations on topics for
38 Symposia, sectional lectures at ICTAMs, etc.

39 The President pointed out that this was originally meant to be one of the key
40 issues for Working Parties and that it is important that Working Parties are
41 taking initiatives in this.

42
43 **8.2. Change of Chairpersons of several Working Parties**

44 The Chairpersons of the WP-1 (Non-Newtonian Fluid Mechanics and
45 Rheology), WP-3 (Mechanics of Materials), WP-5 (Computational Fluid and
46 Solid Mechanics) and WP-9 (Education in Mechanics and Capacity
47 Building) have informed the Secretary-General that they wish to resign in

1 this capacity. This is mostly in agreement with the principle of rolling
2 chairmanship, approved during the previous General Assembly in Warsaw.
3 It is to be noted that over the past year Prof. H. Aref has kindly accepted to
4 be “acting chair” of the WP-9, in this way providing a connection to the Sub-
5 committee on Associate Membership, see item 12 of the Agenda.

6
7 The Bureau has prepared a proposal for new Chairpersons for these WPs.
8 Additionally, and also in agreement with the principle of rolling chairman-
9 ship, the Bureau has prepared a proposal for a change of the chair position
10 of the WP-6 (Biomechanics).

11
12 *It was noted that the decision regarding the above proposals would be*
13 *made in the second session of the General Assembly, see item 21 below.*
14
15

16 **Item 9 – Report on matters relating to ICSU**

17 The President reported that IUTAM was represented at the 28th ICSU General
18 Assembly (held in Suzhou, China, from 18-21 October 2005) by the Vice-
19 President and Professor Yilong Bai. Their report has been enclosed in the
20 material distributed to the members of the General Assembly.

21 The Vice-President presented a summary report with the main topics discussed
22 during the ICSU General Assembly, all of those being related to the strategic
23 plan of ICSU for the period 2006-2011. The following topics are of particular
24 interest to IUTAM:

25
26 (1) Mission statement of ICSU: Strengthening international *Science* for the
27 benefit of *Society*. An important aim of the strategic plan is to generate greater
28 comprehension of science by society.

29
30 (2) Universality of Science and Capacity Building seeks to ensure non-
31 discrimination and equity of opportunity, as well as the building of capacities of
32 countries, especially those in the developing world. Here, ICSU decided to close
33 the Committee on Science and Technology in Developing Countries (COSTED)
34 in 2002 and, subsequently, to set up four Regional Offices for the developing
35 world.

36 Through its involvement in AIMS, IUTAM is highly visible in the African region,
37 whereas in the Asian region our Affiliated Organization AFMC is expected to play
38 an important role. It is expected that for the Caribbean and Latin American region,
39 the new organization LACCOTAM, evolving from our Affiliated Organization
40 CACOFD, will become important. Last but not least, our Working Party No. 9 on
41 Education in Mechanics and Capacity Building has been set up to become the
42 focal connecting body between IUTAM and these regional organizations.

43
44 (3) Environment, Sustainable Development and Renewable Energy. This topic
45 fits well within the scope of our Working Party No. 8 on Geophysical and
46 Environmental Mechanics. It is to be noted that among the activities approved by
47 ICSU is the International Polar Year 2007/2008. A proposal for co-sponsorship

1 by IUTAM of a summer school in this field will be discussed under item 16 of the
2 agenda.

3
4 (4) The ICSU Grants Programme is currently under review. In case ICSU will be
5 able to provide funding for the 2008 Grants Programme, IUTAM ought to be
6 prepared to submit a proposal for this Programme.

7
8 The President thanked the Vice-President for his report.

9
10 On request by the President, Dr. I. Gledhill presented a short survey on the
11 needs with respect to Capacity Building from the side of the developing
12 countries. It appears that for Capacity Building besides the more traditional
13 symposia other types of events like summer schools, workshops, post-doctoral
14 programs, fellowships, exchange programs and student conferences might also
15 be of importance. Here, the support and presence of well-known colleagues,
16 acting as supervisors/mentors, can foster links.

17
18
19 **Item 10 – Inter-Union Committees and Commissions**

20 Nothing to report.

21
22 **Item 11 – Matters concerning non-ICSU organizations**

23 Nothing to report

24
25 **Item 12 – Preliminary discussion on Associate Membership**

26 It was agreed to postpone this item to the second session and to combine it with
27 item 22.

28
29
30 **Item 13 – Proposal for Electoral Committee**

31 The President presented a slate of names for the Electoral Committee which had
32 the approval of the Bureau. Election is reported under item 23.

33
34
35 **Item 14 – Preliminary discussion on future IUTAM Symposia**

36 The Secretary-General had received 24 proposals for IUTAM Symposia in
37 2008/2009, listed below.

- 38
39 F.1 *150 Years of Vortex Dynamics* (Lyngby, Denmark)
40 F.2 *Turbulence in the Atmosphere and Oceans* (St. Andrews, UK)
41 F.3 *The Physics of Wall-Bounded Turbulent Flows on Rough Walls*
42 (Cambridge, UK)
43 F.4 Moved to Solids Proposals
44 F.5 *New Horizons in Compressible Turbulence* (Poitiers, France)
45 F.6 *Laminar-Turbulent Transition* (Stockholm, Sweden)
46 F.7 *Non-Spherical Particle Aerodynamics* (Aalborg, Denmark)
47 F/S.1 *System Identification Using Feed-Forward Neural Networks*
48 (Kanpur, India)

- 1 F/S.2 *Mathematical Modeling and Physical Instances of Granular Flows*
2 (Reggio Calabria, Italy)
- 3 F/S.3 *First LACCOTAM Conference (Margarita)*
- 4 S.1 *The Vibration Analysis of Structures with Uncertainties*
5 (St. Petersburg, Russia)
- 6 S.2 *Modelling Nanomaterials and Nanosystems* (Aalborg, Denmark)
- 7 S.3 *Recent Advances of Acoustic Waves in Solids* (China-Taipei)
- 8 S.4 *Emerging Trends in Rotor Dynamics* (New Delhi, India)
- 9 S.5 *Multi Functional Material Structures and Systems*
10 (Bangalore, India)
- 11 S.6 *Progress in the Theory and Numerics of Configurational Mechanics*
12 (Kaiserslautern, Germany)
- 13 S.7 *Cellular, Molecular and Tissue Mechanics* (Ann Arbor, USA)
- 14 S.8 *Dynamic Fracture and Fragmentation* (Albuquerque, USA)
- 15 S.9 *Mechanics Modeling of Nanomaterials and Systems*
16 (College Station, TX, USA)
- 17 S.10 *Pure and Applied Nonlinear Dynamics in Mechanics*
18 (College Park, MD, USA)
- 19 S.11 *Variational Concepts with Applications to the Mechanics of Materials*
20 (Bochum, Germany)
- 21 S.12 *Theoretical, Modelling and Computational Aspects of Inelastic Media*
22 (Rondebosch, South Africa)
- 23 S.13 *Continuum Mechanics at Micro- and Nano-scale: How small can it go?*
24 (Aberdeen, Scotland)
- 25 S.14 *Multiscale Modelling of Fatigue, Damage and Fracture in Smart Materials*
26 *Systems* (Freiberg, Germany)
- 27 S.15 *Modelling of Microstructured Materials*
28 (Loughborough, UK)
- 29

30 These proposals had been reviewed by the two Symposia Panels. All proposals
31 and the preliminary reports of the Panels had been enclosed in the material
32 distributed to the members of the General Assembly. During a joint meeting of
33 the Symposium Panels in Providence, Rhode Island, USA, on 11 August 2006,
34 the proposals had been grouped into three categories according to the system
35 used since 1978.

36 The recommendations of the two Panels were reported by Prof. D. Henningson,
37 replacing the Chairman of the Fluids Symposia Panel, and Prof. J.D. Achenbach,
38 Chairman of the Solids Symposia Panels.

39
40 *It was agreed to accept altogether no more than 16 Symposia for the years 2008*
41 *and 2009.*

42
43 Professor G. Leal suggested that in future requests for proposals it should be
44 pointed out that, if the proposer has submitted a similar proposal for
45 consideration at a previous General Assembly, it should be made clear somehow
46 in what respect the proposal is different.

47

1 Professor Niordson explained that with respect to the ranking of the proposals
2 the General Assembly decided already long ago that in the first session members
3 of the General Assembly are enabled to move one or more of the proposals
4 ranked A to the B category, whereas moving proposals ranked B to the A
5 category is not possible.

6
7 After preliminary discussion the proposals coded F.1, F.2, F.3, F.6, S.1, S.3, S.4,
8 S.6, S.7, S.8, S.11, S.14 were ranked “alpha”, those coded F.5, F/S.1, F/S.2, S.2,
9 S.5, S.9, S.10, S.12, S.13, S.15 were ranked “beta”, whilst the remaining two
10 proposals, coded F.7 and F/S.1 were ranked “gamma”.

11 *It was agreed that the proposals ranked “alpha” would be accepted in the second*
12 *session, whereas those ranked “gamma” would not be accepted. The proposals*
13 *ranked “beta” would be further considered at the second session.*

14 15 16 **Item 15 – Preliminary discussion on future IUTAM Summer Schools on** 17 **Mechanics**

18 The Secretary-General had received the following two proposals for IUTAM
19 Summer Schools:

20 SS.1 *Advanced Integral Equation Methods in Computational Mechanics*
21 (CISM, Udine, Italy, 2008)

22 SS.2 *Mechanics in Microfluidics* (Beijing, China, 2009)

23 The proposal coded SS.1 had been reviewed by the Solids Symposia Panel and
24 it was ranked “alpha”. The proposal coded SS.2 had been reviewed by both
25 Panels. The Fluids Panel had ranked the proposal “alpha”, whereas the Solids
26 Panel had ranked the proposal “beta”.

27
28 *It was agreed that proposal coded SS.1 should remain ranked “alpha” and,*
29 *hence, it would be accepted in the second session. The proposal coded SS.2*
30 *should be ranked “beta” and, hence, it should be further considered in the*
31 *second session.*

32
33 The President thanked the two Panels and their Chairmen on behalf of the
34 General Assembly for their careful scrutiny of the proposals for IUTAM Symposia
35 and IUTAM Summer Schools.

36
37 *It was agreed that the final decision on future IUTAM Symposia and Summer*
38 *Schools would be made in the second session under items 18 and 19,*
39 *respectively.*

40 41 42 **Item 16 – Proposal for an extra Summer School in 2007**

43 It was agreed to postpone this item to the second session following item 19.

44 45 46 **Item 17 – Preliminary discussion on appointment terms of members of** 47 **Symposia Panels**

1 At the previous meeting in Warsaw in 2004, the General Assembly approved re-
2 appointment of all members of the Symposia Panels for a four-year term. The
3 reasoning was that all regular members of the Symposia Panels had served for
4 one four-year term, whereas also the Panel Chairmen had acted in this capacity
5 for one four-year term. However, in order to have a certain continuity of
6 experience it might be appropriate if half of the Panel membership would change
7 every four years.

8 Now, if one would continue to let the membership of the Symposia Panels
9 unchanged until 2008, it appears to be very difficult to put this "continuity
10 principle" into practice at a reasonable time. In that case, the General Assembly
11 would appoint in 2008 the new membership of the Symposia Panels for the
12 period till 2012. Subsequently, the General Assembly could decide in 2012 to
13 appoint half of the regular membership of the Panels for an additional two-year
14 period and the other half for another four-year period, which would imply that the
15 above "continuity principle" could be put into practice only as of 2014.

16 In order arrive at an earlier start of the "continuity principle", the Bureau proposed
17 that one member of each Panel resigns already in 2006 (i.e. after 6 years of
18 service altogether. (Two Panel members, who are also active in other IUTAM
19 bodies, are willing to do this.) Then, in August 2006 the General Assembly
20 should appoint one new member on each Panel. Furthermore, the Bureau
21 proposed to the General Assembly to let one current member on each Panel
22 continue in 2008 for two more years, implying that in 2008 half of the
23 membership of both panels will be renewed. In this way, starting from 2008, we
24 would be in a position to have the "continuity principle" implemented.

25
26 *It was agreed to accept the above proposal on the appointment terms of the*
27 *members of the Symposia Panels and to decide on the specific changes in the*
28 *membership of the Panels during the second session.*

29
30 The meeting then adjourned.

31 **The meeting reconvened on 13 August 2006.**

32 **Item 18 – Continued discussion and final decision regarding future** 33 **IUTAM Symposia**

34 *The General Assembly decided to accept the 12 symposia proposals, rated*
35 *"alpha", and coded F.1, F.2, F.3, F.6, S.1, S.3, S.4, S.6, S.7, S.8, S.11, S.14.*
36 *Furthermore, the General Assembly decided to reject the 2 symposia proposals,*
37 *rated "gamma", and coded F.7, F/S.1.*

38 After further discussion of the remaining 10 proposals, rated "beta", a vote was
39 taken.

40 *The following further 4 proposals were finally accepted:*

- 41
- 42
- 43
- 44 - F/S.2 *Mathematical Modeling and Physical Instances of Granular Flows*
- 45 - S.2 *Modelling Nanomaterials and Nanosystems*
- 46 - S.5 *Multi Functional Material Structures and Systems*
- 47 - S.12 *Theoretical, Modelling and Computational Aspects of Inelastic Media*
- 48

1
2 **Item 19 – Continued discussion and final decision regarding future**
3 **International Summer Schools on Mechanics**

4 *The General Assembly decided to accept the Summer School coded SS.1 and*
5 *rated “alpha”.*

6 *After further discussion the General Assembly decided to accept the Summer*
7 *School coded SS.2 and rated “beta”.*

8
9
10 **Item 16 (postponed) – Proposal for an extra Summer School in 2007**

11 The Secretary-General had received a proposal for an extra IUTAM Summer
12 School on Sea-ice in 2007. This proposal had been enclosed to the material
13 distributed to the General Assembly. The Bureau had agreed to send this
14 proposal to the Symposia Panels for review. Based on the review comments by
15 the Symposia Panels and in view of the importance of the visibility of IUTAM in
16 the International Polar Year 2007/2008, the Bureau proposed to include this
17 Summer School in the 2007 program as a co-sponsored even, to which a small
18 grant will be assigned.

19
20 *After further discussion it was agreed to accept this Summer School as a co-*
21 *sponsored event for 2007.*

22
23
24 **Item 20 – Continued discussion and final decision regarding annual**
25 **dues**

26 Following the proposal made by the Treasurer, Professor J. Engelbrecht, see
27 item 4, *the General Assembly decided with four votes opposed the following*
28 *amounts for the units of dues:*

29 *US \$ 710 in 2008*

30 *US \$ 726 in 2009*

31
32
33 **Item 21 – Continued discussion and final decision regarding Working**
34 **Parties**

35 *With reference to the proposal under item 8, the General Assembly appointed:*

- 36 - Prof. L.G. Leal as chairman of the WP-1 on Non-Newtonian Fluid Mechanics
37 and Rheology,
38 - Prof. C.T. Herakovich as chairman of the WP-3 on Mechanics of Materials,
39 - Prof. P. Ladeveze as chairman of the WP-5 on Computational Fluid and Solid
40 Mechanics,
41 - Prof. G.A. Holzapfel as chairman of the WP-6 on Biomechanics,
42 - Prof. H. Aref as chairman of the WP-9 on Education in Mechanics and
43 Capacity Building

44
45
46 **Item 12 (postponed) and item 22 – Discussion on Associate Membership**

47 The President, introducing the case, mentioned that during its meeting last year
48 in Adelaide, Australia, the Bureau set up a subcommittee with the task to work

1 out a proposal on Associate Membership for the General Assembly. The report
2 by the subcommittee has been enclosed in the material distributed to the General
3 Assembly.

4 Then, the President invited the Vice-President, in his capacity as member of the
5 subcommittee, to make a summary of the report. Next, there should be a
6 discussion by the General Assembly.

7 Prior to summarizing the report, the Vice-President mentioned that

- 8 - during composing the report the subcommittee consulted with the IUTAM
9 Working Party No. 9. After having incorporated their comments, the
10 subcommittee consulted with the full Bureau and then finalized the report.
- 11 - during the previous General Assembly the point had been raised that IUTAM
12 should open the door for more countries to participate, in particular those from
13 the developing world. Currently, these countries do not participate for financial
14 or organizational reasons.
- 15 - the present proposal is in harmony with the Article IV of the IUTAM Statutes
16 concerning free international scientific co-operation, non-discrimination and the
17 rights of scientists throughout the world. Additionally, in view of developments
18 with respect to AIMS and LACCOTAM, the proposal can be considered to be
19 timely.

20 In summarizing the report, the Vice-President pointed out that the prime criteria
21 for eligibility for associate membership of any country X should be:

- 22 (a) that X be in the developing world and not already a member of IUTAM;
- 23 (b) that X can demonstrate a significant existing research activity in TAM, and a
24 desire to extend this activity through association with IUTAM;
- 25 (c) that an existing member country of IUTAM has research and/or teaching
26 contacts in X and is prepared to support the application and act in a 'mentor'
27 capacity for X; *and*
- 28 (d) that there exist in X a nationally recognized organization (e.g. a national
29 academy) with approved Statutes (or equivalent), which represents all
30 interested parties within the TAM community in X, and which can act as the
31 *Adhering Associate Organization* for the purpose of official communication
32 with, and representation in, IUTAM.

33 Whether a country satisfies these criteria or not would be a matter of judgement
34 in each case by the General Assembly.

35 Of course, the major problem might be a financial one. The subcommittee
36 recommends that there is a certain level of membership dues for associate
37 members and that this should be set at three-quarters of the annual subscription
38 of a Category 1 Adhering Organization (for a full four-year period, payable
39 quadrennially in advance, i.e. once every four years; the current quadrennial
40 subscription would thus be $\frac{3}{4}$ of \$676, i.e. \$507).

41 In any case there will be a review of all associate members at four-year intervals,
42 implying that a particular associate membership would cover at least a period of
43 two General Assemblies and one ICTAM.

44 The right of an Associate Organization is to appoint one member in the General
45 Assembly with voting rights on all matters except elections. If a proxy vote is
46 exerted, this would be by the representative of the corresponding mentor
47 organization.

1 Acceptance of the proposal on associate membership would imply a changes of
2 Statutes.

3 The success of this initiative will require a pro-active involvement of the
4 delegates of our Adhering Organizations. It is not expected that there will be a
5 flood of applications for the proposed associate membership.

6
7 Then, the President thanked the Vice-President for his summary and invited the
8 members of the General Assembly to provide comments.

9
10 Prof. G. Maier remarked that the proposal is consistent with a recent message by
11 Prof. K Sreenivasan, Director Centre for Theoretical Physics in Trieste, in the
12 framework of the World Forum on environmental issues.

13
14 Prof. Kluwick remarked that one of the aims of IUTAM is to disseminate
15 mechanics into the World and within this context we have to make a strong move
16 to the developing world. Hence, this matter is very important for capacity building.
17 He did not have fear for a flood of applications and expressed strong support.

18
19 Dr. I. Gedhill, expressing strong support to the proposal, mentioned that in the
20 countries under concern there is not always

- 21 - an awareness of the importance of science and technology,
- 22 - an adequate grant system for traveling and participating in international
23 meetings
- 24 - critical mass in the university labs, whereas it may be difficult for people to
25 leave teaching responsibilities
- 26 - capacity of research is not always there, in terms of numbers of people
27 available to do research, quality of people, adequate time to do representable
28 research

29 Finally, Dr. Gledhill proposed to change the wording mentorship into partnership.

30
31 Prof. T. Belytschko, speaking on behalf of the US National Committee for TAM,
32 congratulated the subcommittee on their well thought of proposal.

33
34 Prof. L. Bevilacqua also congratulated the subcommittee and suggested to
35 rephrase criteria c by expressing that existing member countries of IUTAM
36 should be prepared to support an application for associate membership and to be
37 in a partnership position. Furthermore, he commented that the restriction voting
38 rights for associate members may give rise difficulties.

39
40 Prof. W. Schiehlen, underlining the importance of the proposal, pointed out that
41 with respect to the number of countries it might be good to consult some
42 additional sources:

- 43 -Information on the situation in ICSU can be obtained from the ICSU website.
44 Currently, there are 107 national members in ICSU. These are divided in three
45 categories, i.e. full scientific members (82), scientific associates (14) and
46 scientific observers (11).
- 47 - IACM, one of our largest Affiliated Organizations, has currently 53 national
48 members, out of which 8 are also IUTAM members.

1 ICTAM, our Olympics in mechanics, attracted in 2000 accepted papers from 54
2 countries out of submitted papers from 66 countries. ICTAM 2004 attracted
3 accepted papers from 73 countries out of submitted papers from 63 countries.
4 Looking at the above numbers, it can be concluded that there is a potential of 5
5 to 25 candidate countries for membership

6 Furthermore, Prof. Schiehlen made the following comments with respect to the
7 proposal:

- 8 - Associate members, as defined in the report, do have voting rights on the one
9 hand, but are defined to be countries not so well developed on the other.
- 10 - In the proposed new Statute X the term developing world is not well defined. It
11 is to be advised to consult existing lists of countries from the World Bank and
12 the OECD and the different categories defined therein.
- 13 - The proposed subscription dues for associated members could be considered
14 to constitute a new category and some of our existing adhering organizations
15 may consider to go to this new category.
- 16 - The ISCU Statutes offer clear definitions of the adhering members, the
17 associated members and the observers and it might be useful to follow these
18 definitions to some extent, as well as the procedures for these categories as
19 established by ICSU (e.g. associated membership is restricted to 6 years, if an
20 associated member fails to pay dues, its voting rights are lost; again the
21 observer status is limited to 6 years).
- 22 - It would be nice if IUTAM could offer each starting associate member the
23 support for one Summer School. This could be supported by an IUTAM Study
24 Group, which might be a more appropriate mechanism than the use of a
25 mentor organization.

26
27 Prof. L. van Wijngaarden, expressing sympathy towards the idea of the proposal,
28 commented that there are some points in the proposed Statutes and the
29 proposed general procedures which should be changed:

- 30 - Experience within IUTAM up to now shows that in most cases non-paying
31 countries do not have a strong national organization. On the other hand, one
32 cannot require at the same time that “there exists in X a national recognized
33 organization ..., which represents all interested parties within the TAM
34 community in X ... “(criterion d for associate membership).
35 Prof. Van Wijngaarden proposed to change this into “there exists in X a
36 nationally visible organization ..., which may act as the Adhering Associated
37 Organization in X for the purpose ... “.
- 38 - The proposed Statutes should be more specific about the possible ending of
39 the associate membership status. In particular, after a certain period there
40 should be a decision either to stop or to take steps towards promotion to full
41 member as Adhering Organization.
- 42 - The role of the mentor organization should be made more clear. The Bureau
43 should always take the first step in exploring the possibility of a new associate
44 member. The role of the mentor organization should be more to give guidance.
45 This should be reflected in the c for associate membership: “an existing
46 member country of IUTAM has ... contacts in X and is prepared to provide
47 support and guidance to the applicant”.

48

1 Then, the President asked for a show of hands of all who are in favor that we
2 should go forward along the lines set by the proposal, thereby taking account of
3 the remarks made during the discussion. Thereby it is aimed at presenting an
4 updated proposal to the General Assembly for voting at its next meeting in
5 Adelaide.

6 *The General Assembly unanimously approved proceeding in this way. It was also*
7 *agreed that the subcommittee for Associate Membership should remain active in*
8 *preparing the updated proposal.*

10
11 **Item 23 – Election of members of the Electoral Committee**

12 *The General Assembly elected unanimously the following persons as members*
13 *of the Electoral Committee:*

14 Prof. L.B. Freund (USA, chair), Prof. A. Acrivos (USA), Prof. Y. Bai (China),
15 Prof. W. Schiehlen (Germany), Prof. L. van Wijngaarden (Netherlands).

17
18 **Item 24 – Election of members of the Congress Committee of IUTAM**

19 *The General Assembly decided to re-elect the following persons as members of*
20 *the Congress Committee for the period 2006 through 2010:*

21
22 Prof. D.E. Beskos, Greece
23 Prof. F. Ellyin, Canada
24 Prof. B.A. Schrefler
25 Prof. M.A. Hayes, Ireland, representative of ISIMM
26 Prof. E.J. Kreuzer, Germany
27 Prof. E.O. Tuck, Australia, President of ICTAM08
28 Prof. M.G. Velarde, Spain

29
30 *The General Assembly decided to elect the following persons as members of the*
31 *Congress Committee for the period 2006 through 2010: to be checked*

32
33 Prof. C.T. Herakovich, USA
34 Prof. J.B. Leblond, France
35 Prof. N.F. Morosov, Russia
36 Prof. N. Peake, UK
37 Prof. G. Yagawa, Japan ?

38
39 *The new membership of the Congress Committee is recorded in the following*
40 *table:*

41
42 Prof. H. (Hassan) Aref, USA, 2008, member of XCCC
43 Prof. N. (Nadine) Aubry, USA, 2008
44 Prof. D. (Dominique) Barthès-Biesel, France, 2008
45 Prof. M.P. (Martin) Bendsøe, Denmark, 2008, member of XCCC,
46 representative of ISSMO
47 Prof. D.E. (Dimitri) Beskos, Greece, 2010
48 Prof. D.H. (Dick) van Campen, Netherlands, 2008

1 Prof. A. (Alberto) Carpinteri, Italy, 2008
2 Prof. G.-D. (Gengdong) Cheng, China, 2008
3 Prof. D. (David) Durban, Israel, 2008
4 Prof. F. Ellyin, Canada, 2010, representative of ICM
5 Prof. L.B. (Ben) Freund, USA, 2008, President, member of the XCCC
6 Prof. I. (Irina) Goryacheva, Russia, 2008
7 Prof. P. (Peter) Gudmundson, Sweden, 2008
8 Prof. M.A. (Michael) Hayes, Ireland, 2010, representative of ISIMM
9 Prof. C.T. (Carl) Herakovich, USA
10 Prof. T. (Tsutomu) Kambe, Japan, 2008
11 Prof. B.L. (Bhushan) Karihaloo, UK, 2008, representative of ICF
12 Prof. A. (Alfred) Kluwick, Austria, 2010
13 Prof. T.A. (Tomasz) Kowalewski, Poland, 2008, member of the XCCC
14 Prof. E.J. (Edwin) Kreuzer, Germany, 2010
15 Prof. S. (Stelios) Kyriakides, USA, 2008
16 Prof. P. (Pierre) Ladevèze, France, 2008
17 Prof. L.G. (Gary) Leal, USA, 2008, representative of ICR
18 Prof. F. (Fernando) Lund, Chile, 2008
19 Prof. P.A. (Peter) Monkewitz, Switzerland, 2008
20 Prof. T.J. (Timothy) Pedley, UK, 2008, Secretary, member of XCCC
21 Prof. B.A. (Bernhard) Schrefler, Italy, 2010, member of XCCC,
22 representative of CISM
23 Prof. A. (André) Thess, Germany, 2008
24 Prof. E.O. (Ernie) Tuck, Australia, 2010
25 Prof. V. (Viggo) Tvergaard, Denmark, 2008
26 Prof. M.G. (Manuel) Velarde, Spain, 2010
27 Prof. G. Yagawa, Japan ?
28
29

30 **Item 25 – Continued discussion and final decision on appointment terms**
31 **of members of Symposia Panels, including election of one new**
32 **member on each Panel**

33 *With reference to the discussion under item 17, it was agreed:*

- 34
35 - to replace on the Symposia Panel for Fluid Mechanics Prof. T. Kambe by Prof.
36 K.R. Sreenivasan,
37 - to replace on the Symposia Panel for Solid Mechanics Prof. F.L. Chernousko
38 by Prof. G. Stepan.
39 .

40
41 **Item 26 – Date and venue of the next General Assembly**

42 *The General Assembly agreed to hold its next meeting during the 22st ICTAM in*
43 *Adelaide, Australia, on Tuesday evening, 26 August, and on Wednesday*
44 *afternoon, 27 August 2008.*
45
46

1 **Item 27 – Any other business**

2 - The Secretary of the Congress Committee explained that the International
3 Papers Committee is selected by the XCCC at its meeting three years before
4 the Congress. Except for communicating the composition of the IPC to the
5 Congress Committee, the composition of the IPC is kept secret.

6
7 - The Secretary of the Congress Committee pointed out that the Congress
8 Committee and the XCCC had suggested that during the intermediate meeting
9 of IUTAM bodies in between two subsequent ICTAMs two sessions of the CC
10 should be organized prior to the meeting of the GA in stead of one.

11 *It was agreed that such a second session of the Congress Committee should*
12 *be encouraged and that the Bureau should further elaborate this.*

13
14
15 Professor T. Pedley thanked the President for having been on duty in the
16 framework of the IUTAM meetings since Friday, 11 August, and having acted as
17 an excellent host.

18
19
20 Then, the President closed the meeting.

21
22
23 *Dick van Campen, Secretary-General*