

Environment & Transportation Technical Group Operating Board Meeting

Tuesday, November 16, 2004

Hilton Anaheim Hotel, Mezzanine 5/Third Fl.

IMECE 2004, Anaheim, CA

Meeting Minutes

1. CALL TO ORDER AND INTRODUCTIONS

VP K. Moore called the meeting to order at 3:00 PM and introductions were made. The list of attendees is shown in [Attachment A](#).

2. APPROVAL OF AGENDA

The meeting Agenda was approved, as shown in [Attachment B](#).

3. APPROVAL OF MINUTES

The March 5, 2004 meeting minutes were approved as distributed.

4. REPORT & COMMENTS OF VICE PRESIDENT

A. Continuity & Change

C. Velzy asked to address the Group regarding the Continuity & Change initiative. He remarked that the driving force is a misrepresentation of financial issues. The BOG is coming up with an organized process to periodically review/evaluate operations of units (both quantifiable and non). Those that are not being operated efficiently will be either sunset or, hopefully, fixed. It's recognized that a lot needs to be done and that communication about this has not been good. He urged all to speak to leaders of the Society who are driving the re-structure. He also cautioned that, while divisions will not be sunset, performance will be measured against the division's own stated targets (e.g., is it meeting needs of all its members?) VP Moore added that technical group leaders within the Know & Community (K&C) structure would be tasked with working with divisions in developing plans. Divisions will be held accountable and are expected to not just sit on their custodial account funds and only serve a small sub-set of their overall membership. If a division can prove that, it will have no problem passing evaluation. The evaluation might happen at the K&C level, where they will be assessed against resource allocation coming from a higher level in the organization.

She went on to explain that the idea is to remove technical group leaders from much of the current bureaucracy so they can spend more time strategizing with the divisions. She noted that there would be five VPs in the K&C structure, including: Technical Communities, Global Communities, Affinity, Financial, and Programs & Activities. It was noted that while the new structure is more complex, the driving ideas are not just to reduce a budget subsidy, but also remove silos, increase synergy, and facilitate new activity. Divisions need to identify and know who their customers are; e.g., members, industry, students, public, government, etc.

VP Moore added that it is proposed we keep the current grouping of divisions under the Technical Communities unit of K&C. There have also been discussions about consolidating some of the groups to reduce the number down from eight. This presents an opportunity for divisions to move to another group, if they so choose. One suggestion is to disband the E&TG and move the divisions under it to other groups. January 31, 2005 is the final date for division chairs to decide which group they want to go with. If the E&TG is not dissolved and K. Moore goes on to become the VP of Technical Communities, as has been recommended, there will be a vacancy for the E&TG "Group Leader" position, requiring that an interim candidate be nominated. Under the new structure, this position will not be a Society officer.

The feeling among those present was that E&TG should remain as is. The line of reasoning was made that divisions don't want to lose the IMECE sessions allocated to the E&TG and that they could lose their identity if they moved to another group. E. Manes stressed that the grouping of divisions should not be based on IMECE session allocations but on where there will be best synergies. Divisions could simply take their IMECE session histories with them to their new group.

ACTION ITEM: E. Manes to set up teleconference after this meeting to discuss Group Leader nominations.

B. Group Rep to Conferences & Events Directorate

VP Moore solicited a Group Rep for the new Conferences & Events Directorate.

5. DIVISION REPORTS

A. Aerospace

J. Robinson highlighted form written report ([Attachment C](#)). There was also a discussion on the ASME/Boeing initiative and what Boeing is getting out of ASME. In response to VP Moore's question, J. Robinson noted that synergies already exist between AERO and the Materials Division.

B. Environmental Engineering

M. Hightower noted that there are six conferences per year dealing with the environment. The EED had talks with AIChE about sponsoring tracks dealing with sustainability. A track has been set up for 2005 IMECE consisting of 16 sessions between EED and other divisions, such as T&S. The plan is to alternate each year with AIChE. P. Napoli indicated the SWPD is interested in participating in the sustainability track at IMECE'05.

M. Hightower went on to report that the 2005 ICEM would take place in September in Glasgow, Scotland. The EED did a joint conference with SWPD this summer that did not break even. He also noted that EED provided seed money to the International Conference on Combustion, Incineration/Pyrolysis and Emission Control (ICIPEC) in China.

E. Manes added that EED and SWPD agreed to take over the Incineration & Thermal Treatment Technologies Conference (IT3) from the University of Maryland in 2006. Issues surrounding co-location with NAWTEC need to be worked out.

There was a question as to making use of the EED custodial account balance of \$100K. VP Moore suggested M. Hightower contact Gary Benda regarding the DLR Award.

C. Noise Control & Acoustics

S. Grace highlighted from written report ([Attachment D](#)). She raised a question as to what can be done about creating a webpage where people can indicate that they are interested in reviewing a paper (pre-populated with member data). VP Moore suggested creating a community on the COP website to do this.

R. Marboe brought up an idea of developing a database of experts in the field.

D. Rail Transportation

D. Cackovic highlighted from a written report ([Attachment E - exec.comm](#)). He added that there is some interest in doing joint international activity with the IMechE in the UK. VP Moore suggested that RTD and EED work on joint activity on rail haul of nuclear waste and large nuclear pressure vessels. She also remarked that, if there is no interest from the RTD in light rail work, that it might require the formation of

new group. E. Manes concurred, noting that ASME needs to be responsive if there is a proven market need.

E. Solid Waste Processing

P. Napoli highlighted from a written report ([Attachment F, reportplan](#)) on behalf of SWPD Chair, N. Egosi. He indicated that there have been talks about SWPD starting its own conference. He also reported that the track session on Waste-to-Energy at this IMECE had 45 people at the start (30 remained) with good audience participation, which was much better than last year.

6. **STANDING COMMITTEE REPORTS**

A. Honors

H. Scarton reminded VP Moore that she has a Dedicated Service Award available.

B. Long Range Planning

J. Robinson gave the seven customer-focus questions to M. Hightower that divisions were asked to complete, noting that he will re-send them to everyone. In response to a suggestion that division annual reports and plans be posted on the web to make it easier to find, it was observed that it may not be a good idea to post strategic type of information on the web.

C. Division Performance

ACTION ITEM: VP Moore to develop a new format for the division annual report and plan.

ACTION ITEM: R. Marboe to gather lessons learned from other divisions as part of his role as chair of the Group's Division Performance Committee.

R. Marboe indicated that he would try to extract lessons learned from other divisions at the 2005 TEC and include it in a report.

D. Technical Coverage & Bylaws

H. Scarton noted that, due to the re-structure, all divisions would have to re-write their bylaws. To simplify things, he suggests that reference to the division's group affiliation be removed from bylaws. He will be sending out an email on what needs to be done to complete the revisions.

7. **LIAISON REPRESENTATIVE REPORTS**

A. Nominating Committee

H. Scarton observed that the Group needed to hold a Nominating Conference. It was then,

MOVED: To temporarily adjourn the Operating Board meeting at 7:00 PM to convene the Group Nominating Conference.

With respect to the Nominating Committee, it was:

APPROVED: To appoint M. Edelson as Group Rep to the ASME Nominating Committee.

There being no other nominations, the Nominating Conference was adjourned and the Operating Board meeting re-convened.

B. Distinguished Lecturers Committee

VP Moore asked all to consider participating in the Distinguished Lectures Program.

C. Board on Research

There was no report.

D. International Congress Program Committee

R. Marboe asked Division Program Reps to attend the Congress Workshops at this IMECE. EED and AERO reps gave R. Marboe their 2005 IMECE session requirements.

E. Committee on Technical Planning

There was no report.

8. NEW BUSINESS

VP Moore reminded all division chairs to send their 2005 TEC delegates to E. Manes and recommended that they consider funding additional delegates from their custodial accounts.

9. NEXT MEETING

The next E&TG Operating Board meeting will be on Friday, March 4, at the 2005 TEC in Pittsburgh, PA.

10. ADJOURNMENT

The meeting adjourned at 7:15 PM.

Respectfully submitted,

Elio A. Manes
Secretary for the Board

**ENVIRONMENT & TRANSPORTATION TECHNICAL GROUP
OPERATING BOARD MEETING**

Tuesday, November 16, 2004
Hilton Anaheim Hotel, Mezzanine 5/Third Fl.
IMECE 2004, Anaheim, CA

Attendees:

Karen Moore	Vice President and Chair
Rick Marboe	Member-at-Large
Martin Edelson	Member-at-Large
Henry Scarton	Technical Coverage & Bylaws
John Robinson	Chair, Aerospace Division
Ajit Roy	Rep, Aerospace Division
Michael Hightower	Chair, Environmental Engineering Division
Sheryl Grace	Chair, Noise Control & Acoustics Division
Dave Cackovic	Chair, Rail Transportation Division
Samuel Williams	Rep, Rail Transportation Division
Peter Napoli	Rep, Solid Waste Processing Division

Staff and Guests:

Charles Velzy	ASME Past President
Elio Manes	ASME Staff, Secretary for the Board

ENVIRONMENT & TRANSPORTATION GROUP OPERATING BOARD MEETING

Tuesday, November 16, 2004, 3:00 PM to 6:30 PM
Mezzanine 5/Third Floor
Hilton Anaheim Hotel
2004 ASME Congress, Anaheim, California

MEETING AGENDA

NOTE: Division Reps, E&TG Standing Committee Chairs and Liaisons are to bring written reports to this meeting.

1. CALL TO ORDER AND INTRODUCTIONS K. Moore
2. APPROVAL OF AGENDA All
3. APPROVAL OF MINUTES All
(5 March 2004, Pittsburgh, PA)
4. REPORT & COMMENTS OF VICE PRESIDENT K. Moore
 - A. Comments on General Assembly Meeting at IMECE'04
 - B. Group Rep to Conferences & Events Directorate
5. DIVISION REPORTS
 - A. Aerospace J. Robinson
 - B. Environmental Engineering M. Hightower
 - C. Noise Control & Acoustics S. Grace
 - D. Rail Transportation D. Cackovic
 - E. Solid Waste Processing N. Egosi
6. STANDING COMMITTEE REPORTS
 - A. Honors - Vacant -
 - B. Long Range Planning J. Robinson
 - C. Division Performance R. Marboe
 - D. Technical Coverage & By-Laws H. Scarton
7. LIAISON REPRESENTATIVE REPORTS
 - A. Nominating Committee A. Moghissi
 - B. Distinguished Lecturers Committee K. Moore
 - C. Board on Research A. Moghissi
 - D. Int'l Congress Program Committee R. Marboe
 - E. Committee on Technical Planning S. Buckley
8. NEW BUSINESS All
9. NEXT MEETING K. Moore
10. ADJOURNMENT K. Moore

**Environment and Transportation Group
November 16, 2004 Meeting
Aerospace Div. Executive Committee Report**

Aerospace Division Chairman – John Robinson

- We have increased the number of sessions at the Congress from 26 last year (2003) to 32 this year (2004). I want to congratulate Ajit Roy and his team for this accomplishment and will request additional sessions next year getting The Propulsion TC involved.
- We have signed a MOU between ASME and Boeing to formalize a partnership for the future of our society. We would like to do the same in the near future with other major aerospace firms.
- We are attempting to get income for joint ASME conferences with other Societies that we support.
- We need to engage our local sections to become more involved with our major national activities, e.g., IMECE and executive committee meetings.
- We want TC members to become involved in the executive committee activities. This is a great way for the TC members to work with the executive committee members and prepares them to become executive committee members when their TC terms expire. I want to thank Diann Brei from the AS&MS TC for leading the way on this.
- Our last division position statement titled “Persistent & Critical Issues in the Nation's Aviation and Aeronautics Enterprise,” was released in 2003 which has received widespread praise and more importantly been used and quoted in a variety of venues.

Our division newsletter is now being published ~~twice~~ ^{ONCE} a year with some good input from all parts of our division.

- The Boeing Company made a \$1,000 contribution in support of the ASME/Boeing Structures & Materials Award. The Lockheed Martin Corporation contributed \$500 in support of the Division’s Adaptive Structures & Material Systems Technical Committee activities.
- All TC's involved in Awards for Best Paper. John Robinson and Peretz Friedmann, who was awarded the Spirit of St. Louis Medal in November 2003, have been appointed to the Spirit of St. Louis Medal Board of Award. The recipient for 2004 is _____.
- We are collecting the TC membership lists and identifying which are Members of ASME.
- We will use the list of active committee members to get more interactive with the Executive Committee and promote membership in ASME. This is an important resource and offers many potential Fellow candidates if we can get there membership active.

ASME Propulsion Technical Committee

Bruce M. Steinetz, Technical Committee, Chairman (bruce.steinetz@grc.nasa.gov)

The ASME Propulsion Technical Committee met at the July 2004 Joint Propulsion Conference in Ft. Lauderdale and discussed plans to revitalize ASME's presence at the Joint Propulsion Conference. The board will be working with ASME and AIAA to over the upcoming months to increase ASME's visibility at the conference. We were privileged to present the Best Paper Award to James Kenyon of the Air Force Research Laboratory, Jerry Griffin of Carnegie Mellon University; and Nam Kim of Hood Technologies for their technical paper, "Frequency Veering Effects on Mistuned Bladed Disk Forced Response," presented at the 2003 Joint Propulsion Conference. New board members elected were: Chairman: Bruce Steinetz, NASA Glenn Research Center, Vice Chairman: James Kenyon, Air Force Research Lab, and Secretary: Frank Chandler: Boeing, Huntington Beach. Due to a year-long job assignment with the Office of Secretary of Defense, James Kenyon has asked to step down as Vice-Chair. Frank Chandler has graciously agreed to step in as Vice-Chair to serve out the remainder of the term. We are currently canvassing the committee for a volunteer to serve as Secretary.

2005 Joint Propulsion Conference: A joint call for papers was issued for the 2005 Joint Propulsion Conference and has now been closed. The Conference will be held at the Tucson, AZ Convention Center, July 11-13, 2005. Session chairmen will be attending an organizing meeting December 2nd, 2004 in Tucson to organize the papers into sessions. We are looking for local Tucson chapter members to assist with manning a membership booth and with helping with audio/visual assistance.

Crew Systems– Phil Spampinato Technical Committee Chairman

TC is preparing for the next International Conference on Environmental Systems (ICES).

The 34th International Conference on Environmental Systems (ICES) will be held at the Doubletree Hotel, Colorado Springs, Colorado, July 19-22, 2004. The conference is hosted and administered by SAE in co-sponsorship with AIAA, AIChE, ASME, and the International ICES Committee. Conference General Chair Barry Finger announced that the Program Committee will be accepting abstracts until November 7, 2003.

The conference will cover the following topics related to humans living and working in hostile environments with applications inside or outside of terrestrial or outer space habitats or vehicles: aerospace human factors; environmental control and life support system technology; environmental monitoring and controls; EVA system technology; life sciences; planetary habitats and systems; and thermal control systems technology for both manned and unmanned vehicles.

Reviewed &
Updated
Operation Procedure

The conference is open to participants from any nation, including academic, government, and industry organizations. Individuals who wish to present a paper need not be affiliated with any of the sponsoring societies. Papers proposed will be evaluated solely on the basis of their suitability for inclusion in the program. Please note that only written papers will be accepted except for sessions indicated as panels.

There will be four days of technical presentations, with approximately 50 sessions. Authors who wish to contribute a paper must submit, before November 7, 2003, a 300-word abstract or a full-length manuscript to SAE. Papers should present technical developments and progress in any of the fields of environmental systems and should make a new and original contribution to the state of the art or be a constructive review of the technical field. Abstracts must include paper title, author(s) name(s), mailing and e-mail addresses, and phone and fax numbers.

Abstracts may be submitted online (preferred) OR emailed to ices@sae.org. Do not submit your abstract by both methods. For online submission, you will be directed to submit your abstract to a specific session; when emailing, please indicate by Session Code which session of those listed is most appropriate for your paper. If you are not sure of the best placement for your abstract, please submit it to Session Code ICES58 - Other.

The ICES Steering Committee will meet in December to review, accept and organize abstracts into sessions.

ASME Adaptive Structures and Material Systems Technical Committee

Alison Flatau- Technical Committee Chair

Committee meeting will be held Wednesday, Nov. 17 at 7:30 pm. Prior to the TC meeting, there will be a reception at 6:00-7:30 pm, sponsored by the TC, the National Institute for Aerospace, NextGen Aeronautics, Inc., and CSA Engineering, Inc. Everyone is welcome to attend.

Adaptive Structures and Material Systems Technical Committee at the SPIE Smart Structures and Materials Symposium San Diego, CA Tuesday, March 16, 2004

Committee meet at the 2003 ASME IMECE ASMS Symposium, Washington, DC
Current treasury balance \$4401.12 . Proposal for ASMS fund raising: More company support has been received. Lockheed, Nextgen, CSA made donations. Another fund raiser may not be needed right now. Funds used for Awards, receptions, etc.
Company donated funds are used for the ASME reception.

Discussed awards and funding. SPIE pays for awards \$1500. G. Carman: perhaps a more global award would be good, perhaps another best paper award. D. Brei: perhaps a young rising star award? Within 5 years of graduation? P.Chaplya: perhaps a best paper for undergrads? P. Davis introduces Jack Jacobs. Jack manages advanced technology for Honeywell. They may sponsor an award. A. Flatau suggested an ad hoc finance

committee will look at awards and bring ideas to next meeting. Porter Davis suggested something along industrial lines. Perhaps a product award. Janet Sater said she did not get a single application from Industry list. Porter volunteered to talk to ad hoc committee together with Jack Jacobs. G. Carman summarized: we are stable for the next two years.

Reports on AIAA SDM - 2004 Adaptive Structures Conference: Greg Agnes and Lee Peterson

Reports on SPIE Symposium 2004 – Chair: Vasundara Varadan, Co-Chair: Yoseph Bar-Cohen. A. Flatau raised the issue of many last minute cancellations and no-shows. This may be tied to visa issues. There were also concerns expressed about posters not being appreciated. To address this, the conference chairs will identify best posters and announce best poster at the Wed. plenary session. B. Armstrong: expressed concern about moving too fast. J. Sater addressed this concern stating that Vasu Varadan had organized the selection of one from each conference and they will be announced in the morning. A. Flatau – this should help instill value to the posters. J. Sater – there is going to be a steering committee that J. Sater will sit on. The steering committee function will be to develop a long range vision for SPIE.

Smart Structures & Integrated Systems Conference 2004 - Chair: Alison Flatau, Co-Chair: Yuji Matsuzaki 76 papers and posters. 6 requested poster. All were accommodated. 6 withdrawals prior to printing. 5 late cancellations. Poster presenters stepped in and presented.

2005 - Chair: Alison Flatau, Co-Chair: Don Leo, Yuji Matsuzaki

Active Materials: Behavior and Mechanics 2004 – Chair: Dimitris Lagoudas, Co-Chair: Bill Armstrong - Keynote speakers in each area. 20 posters in program.

2005 – Chair: Bill Armstrong, Co-Chair: Marcelo Dapino

Damping and Isolation 2004 – Chair: Kon-Well Wang, Co-Chair: William Clark
63 papers. 5 cancellations.

2005 – Chair: Kon-Well Wang, Co-Chair: William Clark

Industrial and Commercial Applications 2004 – Chair: Eric Anderson, Co-Chair: Ed White - 52 papers. Lots of arm twisting needed to get industry folks to write papers. Few university folks in this one. Would like to move the conference back to Monday. Some content will be removed from Thursday. In getting small companies to present we do not want advertising pieces. There needs to be technical content.

2005 – Chair: Ed White, Co-Chair: Porter Davis

Sensors and Smart Structures Technologies for Civil, Mechanical and Aerospace Systems
2004 – Shih-Chi Liu, Alison Flatau and Chung Bang Yun

Over 100 submissions. This is the joint SPIE NDE one. Alison Flatau stepped in at last minute. Victor Giurgiutiu will step in for next year

2005 – Masayoshi (Tomi) Tomizuka and Victor Giurgiutiu

Best Student Paper competition: Arnie Lumsdaine

30 submissions. Very high quality. (last year was about 45). All should encourage students to submit papers next year. Students will keep the prize money. Lumsdaine listed committee who helped with reviews. Idea of separate undergrad and grad student competition discussed. Would be great, but this maybe tough to do unless we get another entire set of reviewers. P. Chaplya - Maybe not enough undergrads. TBD. He will follow up. D. Brie – how many undergrads have we had in the past? A. Flatau – there are some. They write good abstracts. Top 6 are picked based on abstracts. G. Washington– if we state that we will do something special for undergrads we will get more participation by them. Thinks this is a good idea. D. Brie – lets start a pilot program and see how it goes. A. Flatau – maybe tie in with P. Davis and J. Jacobs – industry relevance. Motion for pilot program approved. A. Lumsdaine and P. Chaplya will organize it. Carman – Has this conference grown? Response: Yes, by about 70 papers.

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Reports on International Conference on Adaptive Structures & Technology (ICAST)
2004 Bar Harbor, Maine – Dan Inman

Inman – call went out. Due May 1st (after the SDM). Brie – Cansmart is week before. They will arrange a bus trip from Montreal to Bar Harbor. Virginia DiGeorgi - Cansmart is a very nice small conference. Includes lots of food. Brie – will we plan ICAST so that they do not compete when overseas? Response: CANSMART is primarily Canadian. It does not really compete with ICAST. 2005 ?

Inman – ICAST will be in Paris next. 10-12 October (M,T,W). ICAST excess funds will go to this TC. McGowan – there is a Bristol conference in August 31 – Sept 2. Euromac is first week Sept. We should avoid overlap

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ASME Adaptive Structures and Material Systems Prize (Dan Inman)

Won by Greg Carman. G. Carman will give a presentation about past, present, and future. Will try to do an historical review on Tuesday night. The award nomination procedure is: e-mail a nominations to Dan Inman. D. Inman will e-mail a list of past reviewers to Elio Mannes for posting on web site. Past winners vote. They rank nominees 1 -5. Votes are weighted. 9.2 ASMS Best Paper Awards (Chris Lynch)

Please send nominations to Lynch

Structures and Structural Dynamics (Don Leo) Norm

Materials and Material Systems (Marty Dunn)

Recognition Campaign (Kon-Well Wang) Newest fellow recruited to help – Greg Carman. Two nominees in queue. Hopefully good news at the WAM. Please send nominations to Konwell Wang.

Operating Procedures represented at Division level (Operating Procedures reviewed and Revised Bylaws, H.S. Tzou and Jeff Martin) Need to add details of the student paper competition. A few minor notational items will be handled by e-mail to be adopted.

TC Database (Diann Brei and Mehrdad Ghasemi-Nejhad) Brei – Need a vote on an issue: Compiled a central data base. AIAA and ASME had outdated data base. We had 3000 entries. Ended up with 1300 good e-mails. Topic of selling data base came up. Committee had e-mail discussion. 3 options: 1. sell it straight out. 2. sell access through a data base manager. 3. give free access. Consensus: it should not be given out free (recommended). Pros – fee would bring in funds for TCs (ASME and AIAA) about \$650 per. Cons – effectiveness and potential for abuse. We may not get out important information. Spam filters may be put on. Reputation of TC may suffer if perceived as a spam source. Recommended policy – do not sell it, but encourage donations. Virginia – does ASME have a policy? If list is sold we may need to have an “option out of list” on each email. Recommendation moved and seconded. Voted to not sell it but encourage donations. D. Brei requested an amendment to bylaws to reflect this vote outcome.

AIAA Business (F. Staub)

F. Straub – chair of AIAA. 3 things: 1. started process of having AIAA as co-sponsor of SPIE. This will be in place for next year. Good thing. Only problem is proximity to SDM conference. Hopefully we can push this back. A. Flatau – next year SPIE will be 3/6-10. 2. Data base. 3. N. Wereley is putting together an AIAA book. Wereley, in a proposal to AIAA, has asked for contributors to the book. Please contact Norm if you wish to contribute a chapter, call him immediately. Must have proposal in next week.

Nominations for new TC members

Some discussion of TC size: Janet Sater – Feels bylaws should have a rotation off policy, especially for people not actively contributing. Feels size is too large. Mark Regelbrugger – Feels 30 to 32 is a common size for TCs. Alison will bring to IMECE a list of the number of committee members needed to run the committee.

Votes on new members:

- 12.1 Norm Wereley, Univ. Maryland Yes
- 12.2 Zubeida Ounaies, Virginia Commonwealth Univ. Yes
- 12.3 Gyuhae Park, Los Alamos National Labs Yes
- 12.4 Jiangyu Li, Univ. Nebraska-Lincoln Yes
- 12.5 Alan Browne, GM Research Yes
- 12.6 Geoffrey McKnight, HRL Laboratories Yes
- 13.0 Adjourn

Technical Program – International Congress (IMECE2004, IMECE 2005)

Ajit Roy, Aerospace Div Program Representative, IMECE 2004

IMECE2004: The Aerospace Division (AERO) received 32 sessions from IMECE 2004 Technical Program Committee. The sessions are distributed between two Technical Committees in the Division. The Structures and Materials (M&S) Committee distributed 67 papers in 17 technical sessions spanning well diverse and timely *symposium topics*

related to materials and structures, such as, Nanomaterials, Durability and Damage Tolerance of Heterogeneous Materials, Advanced Joining Technologies for Materials and Structures, Lightweight Cellular Structures, Materials and Structural Systems for Hypersonic Vehicles. The Adaptive Materials and Systems (AMS) Technical Committee received 15 sessions to distribute 58 accepted papers. The symposia in AMS Technical Committee are also well diversified in Active/Passive Control, Active Polymer, Adaptive Structures, Shape memory Alloy, Self-repairing, and Structural Health Monitoring. The other two AERO technical committees (Propulsion and Crew Systems) are active in other technical conferences.

The Aerospace Division is pleased to welcome inaugural participation of National Institute of Aerospace (NIA) in this year's AERO technical sessions. Numerous papers of worth filling about four sessions are accommodated in several symposia in AMS and M&S committees. The active solicitation of papers by the symposia organizers and the committee chairs (Prof. Don Leo of AMS Committee and Prof. George Kardomateas of M&S Committee), along with the participation of NIA, helped AERO sessions grow to 32 sessions this year, an increase of 6 sessions compared to last year. In fact, the Division could have used more sessions this year. The Division initially received 164 abstracts in IMECE 2004 Toolbox, all of which could not be accepted due the number of sessions allocated. As AERO Program Representative for IMECE 2004, I'd like to thank all the symposia organizers, AERO committee chairs, and in particular, Dr. William Craft of NAI, for their valuable time in inviting authors, reviewing abstracts and papers, and assigning papers to appropriate sessions to make all the AERO sessions technically meaningful and timely.

IMECE2005: The Congress Orientation Workshop for IMECE2005 will be held Wednesday, 9 A.M. to noon, 17 Nov 2004. As AERO Div Program Representative Ajit Roy will attend the meeting. AERO Div has requested 36 sessions for IMECE2005, 4 more than IMECE2004. This year (IMECE2004) NIA's participation was very limited. NIA's active participation by accommodating NIA's more sessions in AERO Div is expected to be accomplished through additional session requested.

Aerospace Division Executive Committee 2004-2005

Chair

John W. Robinson

The Boeing Company
Bldg. 13-3, Office 3D25
Mail Code-H013-C313
5301 Bolsa Avenue
Huntington Beach, CA 92647
Tel: 714-896-1292
Email: john.w.robinson2@boeing.com

Vice Chair

Ajit K. Roy, Ph.D.

Air Force Research Laboratory
Afrl Mlbc Building 654
2941 P Street Room 136
Dayton, OH 45433-7749
Tel : 937-255-9034 Fax: 937-656-4706
Email: ajit.roy@wpafb.af.mil

Secretary

Philip Spampinato

ILC Dover Inc.
P.O. Box 266
Frederica, DE 19946-0266
Tel: 302-335-3911 Fax: 302-335-0762
Email: spampp@ilcdover.com

Treasurer

Ephraim Garcia, Ph.D.

Professor, Sibley Sch Mech
& Aero Engr.
Cornell University
224 Upson Hall
Ithaca, NY 14853
Tel: 607-255-4366 Fax: 607-255-1222
Email: eg84@cornell.edu

Member

Jay K. Yoshinaga

The Boeing Company
5301 Bolsa Avenue
MC H013-C322
Huntington Beach, CA 92647
Tel : 714-934-0691 Fax: 714-896-3284
Email: jay.k.yoshinaga@boeing.com

Dr. Inderjit Chopra

Department of Aerospace Engineering
University of Maryland
College Park, MD 20742
Tel : 301-405-1122 Fax: 301-314-9001
Email: chopra@eng.umd.edu

Long Range Planning**John W. Robinson**

The Boeing Company
Bldg. 13-3, Office 3D25
Mail Code-H013-C313
5301 Bolsa Avenue
Huntington Beach, CA 92647
Tel: 714-896-1292
Fax: 714-896-6930
Email: john.w.robinson2@boeing.com

Government Relations**Philip Spampinato**

ILC Dover Inc.
P.O. Box 266
Frederica, DE 19946-0266
Tel: 302-335-3911
Fax: 302-335-0762
Email: spampp@ilcdover.com

By-Laws and Operations Manual**Ajit K. Roy, Ph.D.**

Air Force Research Laboratory
Afrl Mlbc Building 654
2941 P Street Room 136
Dayton, OH 45433-7749
Tel : 937-255-9034
Fax: 937-656-4706
Email: ajit.roy@wpafb.af

Papers Review Chair**Dr. Inderjit Chopra**

Department of Aerospace Engineering
University of Maryland
College Park, MD 20742
Tel : 301-405-1122
Fax: 301-314-9001
Email: chopra@eng.umd.edu

International Congress Program Representative**David R. Martinez**

Sandia National Lab
Structural Dyn & Vib Cont
Dept 9234, MS 0439
Albuquerque, NM 87185
Tel : 505-844-1457
Fax: 505-844-9297
Email: drmarti@sandia.gov

Aerospace Division Technical Committees 2004-2005

Adaptive Structures & Material Systems Committee

Dr. Alison Flatau
University of Maryland
Aerospace Engineering
3184 Glenn L. Martin Hall
College Park, MD 20742
Tel (301) 405-1131
Fax (301) 314-9001
Email: aflatau@umd.edu

Crew Systems Committee

Phil Spampinato
ILC Dover, Inc.
P.O. Box 266
Frederica, DE 19946
Tel (302) 335-3911 ext.350
Fax (302) 335-0762

Propulsion Committee

Bruce M. Steinetz, Ph.D.
NASA Glenn Research
Center MS23-3
21000 Brookpark Rd.
Cleveland, OH 44135
Tel (216) 433-3302
Fax (216) 433-3954
Email: bruce.m.steinetz@grc.nasa.gov
Email: spampp@ilcdover.com

Structures & Materials Committee

Dr. Anthony M. Waas
Professor of Aerospace Engineering
University of Michigan
FXB 3044, 1320 Beal Street
Ann Arbor, MI 48109-2140
Tel (734) 764-8227
Fax (734) 763-0578
Email: dcw@umich.edu

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**NOISE CONTROL & ACOUSTICS DIVISION REPORT
ENVIRONMENT & TRANSPORTATION GROUP
OPERATING BOARD MEETING
IMEC 2004 16 November 2004**

Dr. Sheryl M Grace, Chair
Noise Control & Acoustics Division

Summary of NCAD Activities

At IMEC 2004, NCAD has organized 10 sessions. One of these sessions is a tutorial on Computational Method in Aeroacoustics given by Sheryl Grace. Another session is our annual open forum with our technical committee chairs as panelists. All are aimed at providing meaningful broad technology dissemination to our membership, particularly for industry members.

The Rayleigh Lecture at IMEC 2004 will be presented by Dr. Hafiz M Atassi Notre Dame entitled, "Fluid-Structure Interaction and Acoustics."

The technical committees each have active chairs that are aggressively pursuing new areas of interest for their members. They are also each trying to make connections with other divisions to co-sponsor symposia. The current technical committees are: Active Noise Control, Aero and Hydro Acoustics, Structural Acoustics, and Transportation Noise.

The NCAD web site continues to be well received by members. Dr. Lonny Thompson added the tutorials and Rayleigh lecture presentations from the last few years so that these are now available to NCAD members from the website. We hope to add many functions to the website that will help in producing even better sessions at future conferences.

NCAD continues to support the ASME Journal on Vibration and Acoustics. NCAD's has two associate editors. Dr. Jerry Ginsberg is on a leave due to illness. Despite this effort, no funds are received by NCAD.

A division newsletter was issued by Dr. Sean Wu this summer. Jeffrey Vipperman is taking over as newsletter editor. We hope to put a newsletter together for the summer of 05. The intention is to have 2 per year, one being very short and delivered electronically, but Jeffrey may not implement this for another year..

Membership in NCAD is 697 primary members as of 30 September. No new ASME Fellow were named in NCAD this year (that I know of).

The custodial fund is at \$18,784.85 as of 31 March 2004. Rick Marboe reported that the division received \$3,526 from IMEC 2003. However, this number is nowhere to be found on the statements that I have. In 2003, we minimized costs for IMEC such that only the award certificates and plaques were funds spent. The dinner that was held in honor of NCAD's 25th year of existence went over well but only included a small number of people. In hopes of both reaching more of our members and our colleagues in other closely related divisions in a social setting, we reinstated the Wine and Cheese Reception following the Rayleigh lecture this year. Email invitations were sent to the exec. members of several other divisions encouraging them to also invite their TC members. We hope that we can continue this tradition and use it to contact our colleagues in other divisions within ASME. The plaques and certificates usually cost around \$200 and the wine and cheese party will cost about \$1100. This should be covered easily by the revenue share that we get from IMEC.

Plans for next year

1. 12 sessions including one tutorial and the Rayleigh Lecture are planned for IMECE 2005.
2. The business plan for NCAD needs to be reviewed and possibly updated.
3. Participation in the International Design Engineering Conferences is still being explored with the Design Engineering Division.
4. The Honors and Awards committee will strive to prepare nominations for 2 new Fellows.
5. The NCAD web page will hopefully be improved to allow for more members to participate in the IMEC process (by reviewing papers, or suggesting sessions etc.)
6. We may try to find a corporate sponsor for the wine and cheese reception.

NOVEMBER 2004

ASME RAIL TRANSPORTATION DIVISION

CHAIRMAN'S REPORT TO E&TG

Submitted by David L. Cackovic
Chairman, Rail Transportation Division
Chief, Technical Standards
Transportation Technology Center, Inc.

November 16, 2004

RTD MISSION STATEMENT: *The Rail Transportation Division (RTD) of the ASME provides education, information and advances new technology for the railroad operators, supply industry, academia and government. Through RTD's efforts, productivity and safety of the railroad system improves.*

Conferences

RTD's goal for conferences is to provide engineers in our industry the opportunity to publish and share their work and to network with other engineers. A secondary goal is to break even or better with the RTD sponsored Joint Rail Conference with IEEE, which is held each spring. Surplus funds from the JRC are used to support scholarships for Railroad Industry Employees who seek or have children seeking Mechanical Engineering Degrees.

Issues:

- The JRC has not generated sufficient funds in recent years to support the RTD Scholarship Fund, which has been suspended. The 2004 JRC did generate significant surplus funds, and it is anticipated that the scholarship program will be reinstated as it appears that the 2005 JRC will also be successful. Recent success is the result of the economy but even more importantly much more care in the planning, budget management, and execution of the conferences. The 2005 has more paper commitments than we have had in at least 10 years, which is also a good sign. Of significance is that many of the papers are international which seems to be generating more interest than normal.
- RTD has recently learned of a fall 2005 Conference -- *ASME 2005 Symposium on Railroad Vehicle System Dynamics, Long Beach, California, September 24-28, 2005*. RTD was not aware of this new conference. Every other year, an international group, IAVSD, holds a rail vehicle dynamics conference in September. Hence, there will be 3 rail engineering conferences within a 4 month window.

Leadership

The RTD core is stronger than ever, with a significant number of new members joining in the past few years. Attached are RTD Executive and General Committee lists.

It should be noted that in 2004 we have lost two distinguished RTD leaders, Mr. Grant Arrasmith and Mr. Terry Hawthorne.

Membership, Other ASME Needs and Directives

RTD has been busy with strategic planning. Focus has been on increasing membership by:

- Determining membership needs and desired services
- Marketing and advertising of ASME/RTD Conferences
- Rail industry company sponsorships and awareness of ASME benefits
- Relationships and agreements with similar societies serving the rail industry, including:
 - American Railway Engineering and Maintenance Association
 - Institute of Electrical and Electronic Engineers

Financial Report

RTD's accounts are in good shape. RTD holds a combined \$25K in its two accounts – the custodial account and the RTD account.

Process Improvement Report

RTD began, in 2003, a considerable effort to improve its cost/revenue situation while maintaining, and in several cases, improving the quality of its services to engineers in the rail transportation industry. Steps taken included:

- Monthly conference calls to ensure and maintain communications and consistency on its projects and programs
- Improved and strengthened leadership through more participants from industry
- A much more rigorous business focus to conference planning, improving cost management, paper quality, and attendance.
- Analysis of competition for RTD conferences, to promote better planning and focus for RTD conferences
- Improved Newsletter – by better teamwork and shared roles
- Increased academic participation (RTD is one the few Divisions almost entirely run and attended by industry personnel)

- Issues and areas for future work include:
 - Getting new and younger members in the division
 - Addressing the consolidation of the rail industry
 - Increasing the percentage of RTD members who are active in the Division

ASME RAIL TRANSPORTATION DIVISION
RR-2 GENERAL COMMITTEE
JULY 1, 2004 TO JUNE 30, 2005

EXECUTIVE

**RTD CHAIRMAN & CHAIRMAN
SCHOLARSHIPS RR-12:**

David L. Cackovic
Chief - Technical Standards
Transportation Technology Center, Inc.
55500 DOT Road
PO Box 11130
Pueblo, CO 81001-0130

Phone: (719) 585-1880
Fax: (719) 585-1895
Email: dave_cackovic@ttci.aar.com

SECRETARY-TREASURER:

Gary A. Wagner
VP Sales
Hadady Corporation
510 West 172 Street
South Holland, IL 60473-2717

Phone: (708) 596-5168
Fax: (708) 596-7563
Email: wagnerg@hadadycorp.com

**CHAIRMAN TECHNICAL
PROGRAM COMMITTEE RR-4,
AUDIT, BUDGET & 2004 IMECE
PROGRAM:**

Roger D. Sims
Sims Professional Engineers
2645 Ridge Road
Highland, IN 46322-1663

Phone: (219) 838-0011
Fax: (219) 838-0033
Email: rds@simspe.com

**ANNUAL LUNCHEON RR-9 &
CHAIRMAN LONG RANGE
PLANNING:**

Aubra .D. (A.D.) McKisic
A.Stucki Company
2600 Neville Road
Pittsburgh, PA 15225-1404

Phone: (412) 771-7300 x137
Fax: (412) 771-7308
Email: admckisic@stucki.com

**MANAGER OF DIVISIONAL
AFFAIRS:**

Samuel R. Williams
5759 Scotia Court
Dublin, OH 43016-3256

Phone: (614) 766-6970
(614)-799-1879
Fax: (Call first to switch machine)
Email: srwilliams@columbus.rr.com

**CHAIRMAN MEMBERSHIP
DEVELOPMENT COMMITTEE RR-6,
& NEWSLETTER RR-8:**

Nicholas J. Darien
Principal Investigator/Project Manager
Construction Technology Laboratories,
Inc.
5400 Old Orchard Road
Skokie, IL 60077-1030

Phone: [main] (847) 965-7500, X3224
[direct] (847) 972-3224
Fax: (847) 965-8997
Email: ndarien@ctlgroup.com

**PROGRESS REPORT COMMITTEE
RR-5, LOCOMOTIVES & CHAIRMAN
ADVISORY COMMITTEE:**

Allen C. Bieber (2003-040)
STV, Inc.
2580 Corvette Dr.
Erie, PA 16510-4026

Phone: (814) 825-5558
Fax: (814) 825-7516
Email: abieber@velocity.net

GENERAL

CHAIRMAN NEWSLETTER RR-8:

Thomas S. Guins
Chief Economist
Transportation Technology Center, Inc.
55500 DOT Road
PO Box 11130
Pueblo, CO 81001-0130

Phone: (719) 585-1893
Fax: (719) 584-0791
Email: tom_guins@ttci.aar.com

MEMBER:

Gary Wolf
President
Rail Sciences, Inc.
411 North Clarendon Avenue
Scottsdale, GA 30079-1308

Phone: (404) 294-5300
Fax: (404) 294-5423
Email: gary@railsciences.com

**PROGRESS REPORT COMMITTEE
RR-5, PASSENGER AND TRANSIT**

CARS:

Kenneth R. Hesser
LTK Engineering Services
100 West Butler Avenue
Ambler, PA 19002-5703

Phone: (215) 641-8817
Fax: (215) 540-8627
Email: khesser@ltk.com

MEMBER:

Joseph M. Hettinger
TTX Company
101 N Wacker Drive
Chicago, IL 60606-1784

Phone: (312) 984-3878
Fax: (312) 984-3875
Email: joe_Hettinger@ttx.com

MEMBER:

Mehdi Ahmadian
Dir. - Advanced Vehicle Dynamics
Laboratory
Mechanical Engineering Department
(0238)
Virginia Polytechnical Institute
Blacksburg, VA 24061-0238

Phone: (540) 231-4920
Fax: (540) 231-9100
Email: ahmadian@vt.edu

ASME RAIL TRANSPORTATION DIVISION
RR-2 GENERAL COMMITTEE
JULY 1, 2004 TO JUNE 30, 2005

Phone: (412) 741-5850
Email: dwiebel@aol.com

MEMBER:

Paul G. Steets
Sr. Director Rolling Stock Engineering
Amtrak
4001 Vandever Avenue
2nd Floor Building 12
Wilmington, DE

Phone: (302) 429-6370
Fax: (302) 425-6236
Cell: (908) 313-9856
Email: steetsp@amtrak.com

**CHAIRMAN PUBLICITY
COMMITTEE RR-8:**

Cameron P. Lonsdale
Technical Manager-Railway Products
Standard Steel
500 North Walnut Street
Burnham, PA 17009-1644

Phone: (717) 242-4698
Fax: (717) 242-4680
Email: clonsdale@standardsteel.com

HISTORY AND HERITAGE RR-10:

Charles M. Smith
LTK Engineering Services
100 West Butler Avenue
Ambler, PA 19002-5703

Phone: Office (215) 641-8856
Home (610) 587-1207
Fax: (215) 641-8720
Email: csmith@ltk.com

MEMBER:

E. Thomas Harley
289 Belmont Road
King of Prussia, PA 19406-2002

Phone: Office (610) 688-1190
Home (610) 265-5391
Fax: (Call first to switch machine)

MEMBER:

Don Wiebe
106 Woodland Road
Sewickley, PA 15143-1125

MEMBER:

Kent Johnson
Golden Spike Engineering, Inc.
10 Messina Way, NE
Atlanta, GA 30328-2640

Phone: (770) 396-1425
Fax: (770) 396-9930
Email: gseinc@comcast.net

MEMBER:

Semih Kalay
Senior VP Corporate R&D
Transportation Technology Center, Inc.
55500 DOT Road
PO Box 11130
Pueblo, CO 81001-0130

Phone: (719) 584-0717
Fax: (719) 584-0580
Email: semih_kalay@ttci.aar.org

MEMBER:

Monique Stewart
Program Manager
Office of Research and Development
Federal Railroad Administration
U.S. Department of Transportation
1120 Vermont Ave., NW, Mail Stop 20
Washington, DC 20590-0001

Phone: (202) 493-6358
Fax: (202) 493-6333
Email: monique.stewart@fra.dot.gov

**PROGRESS REPORT COMMITTEE
RR-5, FREIGHT CARS:**

S.K. (John) Punwani (2002-03)
Program Manager
Office of Research and Development
Federal Railroad Administration
U.S. Department of Transportation
1120 Vermont Ave., NW, Mail Stop 20
Washington, DC 20590-0001

Phone: (202) 493-6369
Fax: (202) 493-6333
Home: (703) 938-4996
Email: john.punwani@fra.dot.gov

**REPRESENTATIVE TO SPERRY
BOARD (Through 12/31/07):**

Richard W. Dawson
1171 Banbury Circle
Naperville, IL 60540-6915

Phone: (630) 983-0262
Fax: (630) 983-2606
Email: dickdawson@sbcglobal.net

**MEMBER ADVISORY COMMITTEE
RR-3:**

Daniel H. Stone (1998 - 1999)
Hunter Holiday Consulting, Inc.
503 North Main Street, Suite 546
Pueblo, CO 81003-3130

Phone: (719) 542-4882
Fax: (719) 542-4886
Cell: (719) 821-4884
Home: (719) 647-0121
Email: dhstone@aculink.net

**CHAIRMAN HONORS AND AWARDS
COMMITTEE RR-7:**

Anthony R. Hiatt
Engineering Director
Trinity Industries
2525 N Stemmons Freeway
Dallas, TX 75207-2401

Phone: (214) 589-2502
FAX: (214) 589-8476
Email: tony.hiatt@trinityrail.com

MEMBER:

Richard M. Stegner, Jr.
MotivePower
Wabtec Corporation
4600 Apple Street
Boise, Idaho 83716

Phone: (208) 947-4921
Fax: (208) 947-4957
Cell: (208) 890-7696

Email: rstegner@wabtec.com

ASME RAIL TRANSPORTATION DIVISION
RR-2 GENERAL COMMITTEE
JULY 1, 2004 TO JUNE 30, 2005

MEMBER:

Vinaya Sharma
Sharma & Associates, Inc.
5810 South Grant Street
Hinsdale, IL 60521

Phone: (630) 655-4630, x201
Fax: (630) 655-4662
Email: vsharma@sharma-associates.com

MEMBER:

David Tyrell
Senior Engineer
USDOT / Volpe Center
55 Broadway
Cambridge, MA 02142

Phone: (617) 494-2687
Fax: (617) 494-3616
Email: tyrell@volpe.dot.gov

ASME STAFF SUPPORT:

Elio A. Manes
Sr. program Manager
Engineering programs Dept.
Mail Stop 22W3
ASME International
Three park Avenue
New York, NY 10016-5990

Phone: (212) 591-7797
Fax: (212) 591-7671
Email: manese@asme.org

MEMBER:

Gerald B. Anderson
Senior Principal Investigator
Transportation Technology Center, Inc.
55500 DOT Road
PO Box 11130
Pueblo, CO 81001-0130

Phone: (719) 584-0587
Fax: (719) 585-1898
Cell: (719) 250-6113
Pager: (888) 789-2927
Email: gerald_anderson@ttci.aar.com

MEMBER EMERITUS:

Leonard A. McLean (1979-1980)
4142 Stowe Run Lane
Jacksonville, FL 32225-1622

Phone: (904) 642-2424
Email: leonardmclean@earthlink.net

MEMBER EMERITUS:

Frederick W. Schulze (1991-1992)
230 Fieldstone Way
Erie, PA 16505-5806

Phone: (814) 838-2556

ETG Report

Submitted by Nat Egosi, P.E., Chair-Exec. Committee of SWPD

October 12, 2004

SWPD sponsored three different conference events this year, held two Executive Committee meetings, awarded three scholarships, awarded two service awards, awarded five facility awards and published a comprehensive 8-page newsletter with 11 contributing authors. We also continued our support of ASME's PTC-34 Committee, QRO Committee and RCIMW Committee. A summary is below.

NAWTEC'04 was held May 17 to 19 in Savannah, GA over a three day period that included a plant tour, 316 attendees, 26 booth and tabletop exhibits, 34 technical presentations and 28 peer-reviewed technical papers published in a proceedings issued at the conference. Our first 2004 Executive Committee of SWPD was also held during the conference. Also service awards were given to two SWPD members as well as Facility Awards were given to 5 plants based on a competitive application process that included a total of 11 applicants. We also established for the first time a new category called that Research Facility Award. Attendees exceed the previous year by 6%. Net income to SWPD was \$9,345 after all expenses and distribution to our other partners; this compares the amount of \$4,682 for 2003. At our Executive Committee Meeting of 10/6/04, SWPD decided that we would increase our level of volunteer involvement to further increase the revenue stream as well as to increase membership and participation with SWPD.

Our second sponsorship for the year was the co-sponsoring with EED of a Summer Meeting in Walnut Creek. This meeting was poorly attended with only 23 people of whom 17 were either presenters or organizers. Financially the loss of \$8,400 was picked up by EED as previously agreed. At our Executive Meeting of 10/6/04, SWPD decided that we would no longer continue with this sponsorship as it does not offer interest to our members and depletes the time available of our volunteers.

Our third sponsorship for the year was the co-sponsoring of WTERT conference at Columbia University over a two-day period of October 7 to 8, 2004. Attended by approximately 150 including participants from 10 countries, this event was very successful. At our Executive Committee Meeting of 10/6/04, the board decided that we would increase our level of financial sponsorship and volunteer efforts by adding to the program plant tours organized by SWPD. We are confident this is an excellent venue to increase membership and participation in our ongoing activities.

Annual Division Plan
Member Divisions of the Environment & Transportation Group

This Annual Plan (Part 1 and Part 2) is to be submitted to the V. P. of the Environment & Transportation Group (ETG) Operating Board and Chairs of the Board's Long Range Planning and Division Performance Standing Committees by March. In addition, each Division will give an informal presentation of their Annual Plan and Report at the November ETGOB meeting at the annual ASME Congress. The ETGOB would like for the incoming chair to present the Plan and the chair to present the Report.

Answers to most questions should be no more than two or three sentences. *The questions have been created to help the Division Leadership be introspective in assessing the specific areas on which they should focus during the coming year. The incoming Division Chair in consultation with the Executive Committee should prepare the Annual Plan.*

PART 1: DIVISION PLAN
Background Information

1. Division: Solid Waste Processing
2. Year for Which the Plan is submitted. (Note: the ASME fiscal year is July to June.): 2004
3. Division Chair submitting the Plan
 - Name: Nathiel Egosi, P.E.
 - Address: RRT Design & Construction
 125 Baylis Road
 Melville, NY 11747
 - Telephone No: (631) 756-1060
 - FAX No: (631) 756-1064
 - Email: negosi@rrtenviro.com

Leadership

4. In *bulleted* format, list three to five specific objectives that the Division will accomplish during the next year. These objectives should be developed through observation of the operation of the Division, discussions with Division leadership, reference to the Division's Strategic Plan, and consideration of ASME's goals and objectives. Following each objective, list one specific *measure of success*, which when it is achieved will demonstrate that the Division has met this objective.

<u>Objectives</u>	<u>Measures of Success</u>
a) Summer 2004 Meeting	Attendance of 40, Sponsor Contributions
b) Newsletter	Out before July 1, 2004
c) NAWTEC 13	Attendance increase 5%
d) Membership	Increase Primary by 10%
e) SWANA	For the 1st time Co-sponsor WTE track
f) Scholarship	Increase by 50% the amt. applicants

5. What should be done to make the Division's Technical and Administrative Committees more active in contributing to the operation of the Division? Are there committees that should be *sunset*? Are there new technical areas that should be pursued? With our industry changes we have establish three new positions: Website Editor, Liason to WTERT, and Historian.
6. What should be done to improve the participation of the Division leaders at Executive Committee meetings, i.e., Executive Committee members, Technical and Administrative Committee Chairs, and past Division Chairs, so that routine business can be conducted and decisions made? We have relocated and established our second Exec. meeting to be in NY coordinated with the WTERT conference at Columbia U, previously we would schedule it at our Summer meeting but many members can not attend due to location or vacation schedules. Also the date was too close to our first meeting of the year.

Service

7. What are the Division's Conference activities? Is the level of the Division's conference activities appropriate or should it be enhanced? Build upon the current NAWTEC Conference and Summer Meetings and start new activites by co-sponsoring the WTE track at SWANA's WASTECON and by participating with the WTERT meetings. Also we are looking to coordinate the time and location of IT3 with NAWTEC so it is at the same time/place to get the advantage of synergy.
8. What Is the Division doing to provide service to all of its customers, i.e., active members, inactive members, student members, prospective members, other elements of ASME, industry, the general public? Are there elements of this constituency that are not being adequately served? What should be done to remedy the situation? We are trying to focus more on other technologies besides waste to energy. Regarding students, we are putting significant emphasis into the promotion of our scholarship program.
9. What does the Division do to provide continuing education opportunities through workshops, short courses, etc.? If it does nothing, should it provide these services? CEU and PDH are provided at NAWTEC
10. What does the Division do to recognize the contributions of its members? Are the Division's Honors and Awards Committee activities appropriate and sufficient or should it be improved? *Note: Most Divisions do not nominate enough people for Society Awards, Fellow, scholarships, etc.* While we continue to honor many, will need to do more to elevate members to fellow grade.
11. What does your Division do to provide informal fun-type activities for the membership to interact? Summer Meetings are our informal gathering.

Finances

12. Does the Division provide sufficient financial resources for the Technical and Administrative Committees to pursue their programming? Is limited funding a problem for the Division? No, but revenues are slipping.
13. In tabular form, show the current balance of all Division financial resources, list all anticipated expenses for the coming year, list all sources of potential income for the coming year, and project the balance for the end of the year.

Current Custodial Fund Balance:	_____
Anticipated Expenses for Coming ASME Year:	_____
Sum of Projected Expenses:	_____

Anticipated Income for the Coming ASME year:	NAWTEC 12	
	Meetings & Sponsors	
	Conference Accounts	
Sum of Projected Income:		<u> \$ </u>
Projected End of Year Division Balance:		<u> \$ </u>

PART 2: ADMINISTRATIVE

- List the number of
 - Active Division Members:
 - Division Primary Members:
 - Primary and Secondary Members:
 - The number of Division Fellows:

Bylaws/Operating Guide

- What is the date of latest revision of the Bylaws and Operating Guide? 2002
 - Who is responsible for review and revision of the Bylaws and Operating Guide? Executive Committee
- (Each Division should have current Bylaws and Operating guides and make them available to all active members. If the Bylaws/Operating Guide have not been revised within the last five years, then they should be thoroughly reviewed and brought up to date.)*

Strategic Planning

- What is the date of the Division's Strategic Plan or revision? Currently Revising
 - How is the Strategic Plan utilized in formulating the yearly Division Plan? Currently does not fit needs.
- (Each Division should have a short Strategic Plan that extends three (3) years into the future.)*

Honors & Awards

- How are Division Members nominated for awards and who is responsible for the Division's honors and awards? Anthony Licata, Honors and Awards Chair
 - What types of awards and how many of each did the Division bestow this year? Please list the awards and numbers. 1 Distinguished Service, 1 Lifetime Achievement, 3 Appreciation, 5 Plant Awards
 - This year, how many Division members were nominated by the Division for National ASME awards? How many received the award? Please list them below. 1, none yet.
 - This year, how many Division members were nominated for National Awards outside of ASME? Please list them below. ?
 - How many Fellow nominations did the Division submit to ASME this year?
- (In general ASME Divisions do not provide enough recognition of their volunteer members by nominating them for ASME and other national-level awards.)*

Technical Programming

6. Please complete the following table for all conferences in which the Division participated during the past year. List the name(s), date(s), Division Participation (sponsor or participant), total attendance, Division attendance, at all conferences in which the Division participated during the past year.

<u>Name of Conference</u>	<u>Dates</u>	<u>Division Attendance</u>	<u>Other Sponsors</u>	<u>Attendance</u>
NAWTEC 12	May			
Summer 2003	August			
ASME International Congress				

7. At all Conferences during the past year, how many Technical Sessions did the Division sponsor and how many papers were presented at those sessions?

Technical Sessions

Papers Presented:

8. In the past year, how many technical papers were published by Division members in Society Journals or Transactions? None

9. Please list each Journal and the number of papers.

Journal

Number of Papers

10. Please list all of the Division's continuing education activities, special publications, workshops, etc. for the past year.

<u>Activity</u>	<u>Dates</u>	<u>Attendance</u>
Waste Combustor Operator Training	None	

Division Meetings

11. List dates of and attendance at Division Executive Committee Meetings during the past year.

Dates

Attendance

11. List the Division's Technical and Administrative Committees, their Chairs, terms of office for the chairs, and when the Committees met during the past year.

<u>Committee</u>	<u>Chair</u>	<u>Term of Office</u>	<u>Dates of Committee Meetings</u>
Papers & Publishing	John S. Austin	Open Term	E-conference for reviews
Honors Committee Phone & Mail for Selection	Anthony Licata		Open Term
Scholarships	Amit Chatopadahy	Open Term	Phone & Mail for Selection
PTC 34 s	Len Grillo	Open Term	May & October
Newsletter	Sherman Patton	Open Term	May & October
Facility Awards	Anthony Licata	Open Term	Phone and Email
QRO	John Norton	Open Term	May & October
Membership	Peter Napoli	Open Term	May & October

13. During the past year, when did the Division's Conference Planning Committee meet?

Dates

Attendance

May

Relations with other organizations

14. Please list special representatives of the Division to other organizations inside and outside of ASME (other Divisions, other technical associations, sections, regions, etc.).

NAWTEC Committee: Anthony Licata

WTERT Committee: Floyd Hassilriis

ASME Research Committee Industrial Municipal Waste: Floyd Hassilriis

15. How are Board's actions and requests acted on and reported to the general Division membership?
 News

16. Who within the Division is responsible for responding to inquiries from Washington Office? Chair

17. How many Division delegates attended the most recent Technology Executives Conference? 4

(The coordination of Division activities with other ASME Divisions of similar interests, other technical societies, and the ASME are critical to its successful operation. As members of the ASME, the Divisions must report to the ASME through the Board.)

Membership

18. For each of the past five years, please list the number of active members in the Division, the number of Primary members, and the number of Primary plus secondary members.

<u>YEAR</u>	<u>PRIMARY MEMBERS</u>	<u>PRIMARY + SECONDARY MEMBERS</u>
2001	322	754

19. What does the Membership Development Committee do to increase membership and participation in the Division?

20. What kind of industry support does the Division have? Sponsorship is still there, but to a lesser extent than in the past.

21. How many active Division members are from the industry? Most How many from the primary and secondary membership are industry members? Most

Publicity

22. List the dates of publication and distribution of the last three Division Newsletters.

<u>Dates</u>	<u>Distribution</u>
2000	2500

23. What types of recruiting and membership development tools does the Division utilize? How are they used? Does the Division have and maintain a web page?

We plan to use activities to increase participation and membership.

24. Are Division's activities publicized in any other way? How? Please list them below.

Partner groups IWSA and SWANA do notify their members of our activities.

Finances

25. Please list the balance of the Division's custodial fund for each the last five years.

<u>YEAR</u>	<u>BALANCE</u>
2000	
1999	
1998	
1997	
1996	

26. List below the Division's major sources of income over the course of a year and their relative amounts?

<u>SOURCE OF INCOME</u>	<u>YEARLY AMOUNT</u>
NAWTEC	
Other	
Investments: Maybe?	

27. List below the Division's major yearly expenses and their relative amounts?

<u>YEARLY EXPENSE</u>	<u>YEARLY AMOUNT</u>
Meeting Subsidies	
Research Grants	
Training Projects	
Scholarship	
Committee Support	

(A Division with limited financial resources may have difficulty responding to the needs of its membership. A Division with high levels of resources is probably not best utilizing them in the interests of its membership.)

ADDITIONAL COMMENTS

7. Please list any additional comments below.