

Calendar on Composites

The following meetings may be of interest to researchers in the field of composite materials.

1–6 July 2002

ICCE/9: Ninth International Conference on Composites Engineering, San Diego, CA, Contact: Dr. David Hui, University of New Orleans, LA 70148, tel: 504-280-6652, fax: 504-280-6192, email: dhui@uno.edu, web: <http://www.uno.edu/~engr/composite>.

14–16 July 2002

IABMAS 2002: First International Conference on Bridge Maintenance, Safety, and Management, Barcelona, Spain, Contact: IABMAS (International Association for Bridge Maintenance and Safety. Includes Composites, CPS Forum S.L., C/ Llull, 102-2a, 08005 Barcelona, Spain, tel: +34.93.486.35.80, fax: +34.93.300.00.40, email: iabmas02@cpsforum.com, web: <http://www.cpsforum.com>.

14–19 July 2002

CIMTEC 2002? 10th International Ceramics Congress & 3rd Forum on New Materials, International Congress Center, Florence, Italy, Contact: CIMTEC 2002, P.O.Box 174, Corso Mazzini, 52, 48018 Faenza, Italy, tel: +39 (0)546.22461/664143, fax: +39.(0)546.664138/663362, web: <http://www.dinamica.it/cimtec>

15–17 July 2002

ACCM-3 & FPCM-6, University of Auckland, Auckland, New Zealand, Contact: Dr. Debes Bhattacharyya, ACCM-3 & FPCM-6 (2002), ACCM3/FPCM6, Centre for Continuing Education, The University of Auckland, Private Bag 92019, Auckland, NEW ZEALAND, tel: +64-9-3737599, fax: +64-9-3737479, email: k.jayaraman@auckland.ac.nz, web: <http://www.cce.auckland.ac.nz/accm>

21–25 July 2002

ACUN-4 International Composites Conference: Composite Systems-Macrocomposites, Microcomposites, Nanocomposites, at the University of New South Wales (UNSW), Sydney Australia, Contact: Dr Sri Bandyopadhyay, School of Materials Science and Engineering, UNSW, Sydney 2052, Australia, tel: +61 2.9385.4509, fax: +61 2.9385.5956, email: s.bandyopadhyay@unsw.edu.au, web: <http://www.materials.unsw.edu.au>.

27–29 August 2002

Advances in Experimental Mechanics, Stratford-Upon-Avon, UK, Contact: J.A. Mackinnon, 71 Hillview Drive, Clarkston, Glasgow G76 7JJ, tel: 0141-577-6297, fax: 0141-577-6281, email: bssmsec@moragmac.clara.net, web: www.bssm.org.

4–6 September 2002

RP Asia 2002 Conference & Exposition, Mandarin Oriental Hotel, Kuala Lumpur, Malaysia, Contact: Elsevier Advanced Technol-

ogy, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK, email: rpasia@elsevier.co.uk, web: <http://www.rpasia.com>

8–13 September 2002

The 14th European Conference on Fracture: ECF 14, Cracow, Poland, Contact: Prof. Krzysztof Golos (co-chairman), Conference ECF 14, Warsaw University of Technology, Institute of Machine Design Fundamentals, 84 Str. Narbutta, 02-524 Warszawa, Poland, tel.: + (48) (22) 660 82 62, fax: + (48) (22) 660 86 22, e-mail: ecf14@simr.pw.edu.pl, web: <http://ecf14.simr.pw.edu.pl/>.

11–13 SEPTEMBER 2002

TEXCOMP 6—International Conference on Textile Composites: The Role of Textile Technology in Nanocomposites, Philadelphia, Pennsylvania, USA, Contact: Dr. F. Ko, Drexel University (chair), Fibrous Materials Research Center, Department of Materials Engineering, Drexel University, Philadelphia, Pennsylvania USA, tel: +1.215.895.1642, fax: +1.215.895.6684, email: marmelmm@drexel.edu.

11–13 September 2002

IABSE Symposium—Towards a Better Built Environment—Innovation, Sustainability, Information Technology, Melbourne, Australia, Contact: International Association for Bridge and Structural Engineering, (IABSE), tel: +41 1.633 2647, fax: +41 1.633 1241, email: secretariat@iabse.ethz.ch, web: <http://www.iabse.ethz.ch/conferences/melbourne/>

15–18 September 2002

Fracture of Polymers, Composites and Adhesives, Les Diablerets, Switzerland, Contact: Amy Richardson, ESIS TC4 Conference Secretariat, Elsevier Science, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK, tel: +44 1865 843643, fax: +44 1865 843958, e-mail: a.richardson@elsevier.co.uk, web: <http://www.esis-tc4-2002.com/>.

16–18 SEPTEMBER 2002

AMPET 5th Conference—Aerospace Materials, Processes & Environmental Technology Conference, Marshall Space Flight Center, Huntsville, Alabama, Contact: Beth Cook, MSFC, tel: +1.256.544.2545, fax: +1.256.534.9899, email: beth.cook@msfc.nasa.gov, web: <http://ampet.msfc.nasa.gov>.

16–18 September 2002

10th US-JAPAN Conference on Composite Materials, Stanford University, Stanford, CA, USA, Contact: Prof. Fu-Kuo Chang, Durand Building Room 250, Department of Aeronautics and Astronautics, Stanford University, Stanford, CA 94305, tel: (650) 723-3466, fax: (650) 725-3377, email: fkchang@stanford.edu.

18–20 September 2002

Integrated Nanosystems 2002: Design, Synthesis & Applications, Berkley, California, USA, Contact: Dorothy Smith, Integrated Nanosystems 2002, 22 Law Drive, Box 2900, Fairfield NJ 07007-2900, tel: toll-free in US/Canada: 1.800.843.2763, tel: Mexico 95.800.843.2763, fax: +1.973.882.1717, email: smithd@asme.org, web: <http://www.asme.org/nano>.

18–20 September 2002

THE 8TH China International Composite Materials, Industrial Technical Exhibition, Shanghaimart, Shanghai, P.R. China, Contact: CIMGC, No. 11 Sanlihe Rd, Beijing 100831, P.R. China, tel: +86 10.6831.9998, fax: +86.10.6834.9607 / 10.8838.4109, email: cc-show@263.net.

22–26 September 2002

Advanced Materials & Processes for Gas Turbines, Copper Mountain, Colorado, USA, Contact United Engineering Foundation, New York, NY, tel: +1.212.591.7836, fax: +1.212.591.7441, web: <http://www.engfnd.org/2ba.html>.

23–27 September 2002

Internatinal Conference on Fatigue Damage of Structural Materials IV, Radisson Hotel, Hyannis, MA, USA, Contact: Sarah Wilkinson, Fatigue Damage IV Conference Secretariat, Elsevier Science, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK, tel: +44 (0) 1865 843691, fax: +44 (0) 1865 843958, email: sm.wilkinson@elsevier.co.uk, web: <http://www.fatiguedamage-iv.com/>.

24–25 September 2002

5TH International AVK-TV Conference on Reinforced Plastics and Thermoset Moulding Compounds, Baden-Baden Kongresshaus, Germany, Contact: Arbeitsgemeinschaft Verstärkte Kunststoffe—Technische Vereinigung e.V., Am Hauptbahnhof 10, D-60329 Frankfurt/Main, Germany, tel: +49 (0)69.250920, fax: +49 (0)69.250919, email: info@avk-tv.de, web: <http://www.avk-tv.de/>

24–27 September 2002

INNOTRANS: Innovation in Transportation, Berlin, Germany, Contact: email: innotrans@messe-berlin.de, web: <http://www.innotrans.de>

25–27 September 2002

COMPOSITES 2002: The Largest Composites Event in North America Atlanta, Georgia, USA, Contact: Jeanne McCormack, Director of Conferences and Meetings Composites Fabricators Association, 1655 North Fort Myer Drive, Suite 510, Arlington, Virginia 22209 USA, tel: +1.703.525.0511, fax: +1.703.525.0743, email: JMccormack@cfa-hq.org, web: <http://www.cfashow.org> and <http://www.cfa-hq.org>.

8–9 October 2002

ASM Materials Solutions Show Conference & Exposition, Columbus, Ohio, Contact: ASM International Exhibitions, 9639 Kinsman Rd, Materials Park OH 4073-0002, tel: +1.440.338.1733, email: cdec@asminternational.org, web: <http://www.asminternational.org>

21–23 October 2002

The Global Outlook for Carbon Fiber 2002, Hilton North Raleigh Hotel, Raleigh, North Carolina, USA, Contact: Scott Stephenson, Intertech Conferences, 19 Northbrook Drive, Portland, ME 04105,

tel: +1.207.781.9800, fax: +1.207.781.2150, email: scotts@intertechusa.com.

21–23 October 2002

American Society for Composites 17th Annual Technical Conference, Stewart Center, Purdue University, West Lafayette, Indiana, USA, Contact: Prof. C.T. Sun, School of Aeronautics and Astronautics, Purdue University, west Lafayette, Indiana, 47907, USA, fax: 765.494.0307, email: asc2002@ecn.purdue.edu, web: <http://www.ecn.purdue.edu/~asc2002>.

21–25 October 2002

Matériaux 2002 Exhibition and Conference, Palais de Congres du Vinci hall, Tours, France, Contact: Pascale Bridou, Societe de Chimie Industrielle, 28, rue Saint Dominique, 75007 Paris France, tel: +33 (0)1.53.59.02.18, fax: +33 (0)1.45.55.40.33, email: pascale.bridou@wanadoo.fr, web: <http://www.materiaux2002.net>

24–26 October 2002

IFAI EXPO 2002, Charlotte Convention Center, North Carolina, USA, Contact: IFAI Conference, 1801 County Rd B W, Roseville MN 55113-4061, tel: +1.651.222.2508, fax: +1.651.631.9334, email: confgmt@ifai.com, web: <http://www.ifai.com>

4–7 November 2002

34th International SAMPE Technical Conference, Baltimore, MD, Contact: D. Weaver, SAMPE Business Office, P.O. Box 2459, Covina, CA 91722-8459, tel: 626-331-0616 ext. 603, fax: 626-332-8929, email: dweaveribo@cs.com.

17–22 November 2002

2002 ASME-IMECE: Symposium on Design and Manufacturing of Composites, New Orleans, LO, Contact: Dr. Uday Vaidya, Department of Materials Science & Engineering, The University of Alabama at Birmingham, BEC 254 1530 3rd Ave S., Birmingham, AL 35294-4461, tel: 205-934-9199, fax: 205-934-8485, email: uvaidya@eng.uab.edu, web: www.asme.org/congress/cfp/dmc.htm.

18–20 November 2002

International Body Engineering Conference and Expo (IBEC), Detroit, Michigan, USA, Contact: Conference Promotions, SAE, Warrendale, Pennsylvania, USA, tel: +1.724.776.4841, x7340, fax: +1.724.776.1830, web: <http://www.sae.org>.

26–28 November 2002

RAILTEX, UK, Contact: email: railtex@mackbrooks.co.uk, web: <http://www.railtex.co.uk/>

21–23 January 2003

Fourth International Conference on Composite Science and Technology (ICCST/4) & 2nd International Conference on Applied Mechanics and Materials (ICAMM 2003), Durban, South Africa, Contacts: Professor S Adali, Professor E Morozov, Professor V E Verijenko, School of Mechanical Engineering, University of Natal, Durban 4041, South Africa, tels: +27 31.260.3203 (SA), +27 31.260.3200 (EM), +27 31.260.1063 (VEV), fax: +27 31.260.3217, emails: adali@nu.ac.za, morozov@nu.ac.za, verijen@nu.ac.za, web: <http://www.mecheng.nu.ac.za>

3–6 February 2003

IMAC-XXI Conference and Exposition on Structural Dynamics, Kissimmee, FL, USA, Contact: Society for Experimental Mechanics Inc., 7 School Street, Bethel, CT 06801, tel: 203.790.6373, fax: 203.790.4472, email: sem@sem1.com, web: www.sem.org.

18–20 February 2003

International Conference on Performance of Construction Materials in the New Millennium—A New Era of Building, Cairo, Egypt, Contact: Dr. Mahmoud Reda Taha, Department of Civil Engineering, The University of Calgary, 2500 University Dr., N.W., Calgary, Alberta T2N 1N4, Canada, tel: +1.403.716.8042, fax: +1.403.282.7026, email: icpcm@ucalgary.ca, web: <http://www.ucalgary.ca/~icpcm>

31 March–2 April 2003

Sixth International Conference on Sandwich Structures, Fort Lauderdale, FL, Contact: Dr. Jack R. Vinson, Conference Co-chair, 126 Spencer Laboratory, University of Delaware, Newark, Delaware, USA 19716, email: vinson@me.udel.edu.

1–3 April 2003

JEC Composites Show: The Largest Global Composites Exhibition and European SAMPE Conference, Paris Expo, Contact: JEC SA, 4, rue Rembrandt F-75008 Paris, tel.: +33.1.58.36.15.01, fax: +33.1.58.36.15.15, email: infojec@globalcomposites.com; web: <http://www.globalcomposites.com/jecshow/jec2.html>.

7–9 April 2003

Fatigue 2003: Fifth International Conference of the engineering Integrity Society, Queens' College, Cambridge, UK, Contact: C. Pinder, Engineering Integrity Society, 5 wentworth Avenue, Sheffield S11 9QX, UK, tel: 44(0)114-262-1155, fax: 44(0)114-262-1120, email: cpinder@e-i-s.org.uk, web: www.e-i-s.org.uk.

22–25 April 2003

13TH Corrosion & Construction Conference & Exhibition and The Inaugural International Infrastructure Conference: Combining Science and Industry in Composites, Bally's, Las Vegas, Nevada, USA, Contact: Jeanne McCormack, Director of Conferences and Meetings, Composites Fabricators Association, 1655 North Fort Myer Drive, Suite 510, Arlington, Virginia 22209 USA, tel: +1.703.525.0511, fax: +1.703.525.0743, email: JMccormack@cfa-hq.org, web: <http://www.cfashow.org> and <http://www.cfa-hq.org>.

11–15 May 2003

SAMPE 2003: 48th International SAMPE Symposium & Exhibition (ISSE #48), Long Beach Convention Center, California, USA, Contact: Doris Weaver, Society for the Advancement of Material & Process Engineering (SAMPE) International Business Office, Covina, California, POB 2459 Covina, CA 91722, tel: +1.626.331.0616, x603, fax: +1.626.332.8929, emails: sampeibo@aol.com or dweaveribo@cs.com, web: <http://www.sampe.org>.

2–4 June 2003

SEM Annual Conference and Exposition on Experimental and Applied Mechanics 60th Anniversary of SEM!, Charlotte, North Carolina, USA, Contact: Society for Experimental Mechanics Inc., 7 School Street, Bethel, CT 06801, tel: 203.790.6373, fax: 203.790.4472, email: sem@sem1.com, web: www.sem.org.

9–12 June 2003

AEROMAT 2003: 13th Advanced Aerospace Materials & Processes Conference and Exposition—Global Perspectives on Aerospace Materials and Processes, Dayton, Ohio, Contact: ASM International, Materials Park, Ohio 44073, tel: +1.440-338-5151, fax: +1.440.338.4634, email: cust-srv@asminternational.org, web: <http://www.asminternational.org/aeromat>.

1–3 July 2003

Structural Faults and Repair-2003, Kensington, London, UK, Contact: Professor M.C. Forde, School of Civil & Environmental Engineering, University of Edinburgh, The King's Building, Edinburgh, EH9 3JN, Scotland, UK, fax: 44-(0)131-452-8596, email: m.c.forde@ed.ac.uk, web: www.structuralfaultsandrepair.com.

8–10 July 2003

6TH International Symposium on FRP Reinforcement for Concrete Structures (FRPRCS-6), Singapore, Contact: Assoc Prof Kiang Hwee TAN, Chairman, Organizing Committee, FRPRCS-6, Department of Civil Engineering, National University of Singapore, Blk E1A, #07-03, 1 Engineering Drive 2, Singapore 117576, tel: +65-8744512 / 8742260, fax: +65-7791635, email: cvetankh@nus.edu.sg, web: <http://courses.nus.edu.sg/course/cvetankh/internet/frprcs6>.

14–18 July 2002

14th International Conference on Composites Materials (ICCM-14): Hyatt Regency San Diego, San Diego, California, abstracts due September 16, 2002. ICCM-14 will be hosted by the American Society for Composites (ASC) and the Composites Manufacturing Association of the Society of Manufacturing Engineers (CMA/SME). The theme of the conference, 'ICCM-14: Global Composite Advancements—Bridging Academia and Industry,' addresses the need for increased cooperation between these two parties. In keeping with the successful tradition of ICCM, the scope of the conference is broad. ICCM-14 welcomes submissions on all aspects of composite materials. For more details, and instructions for abstract and paper submission, see <http://www.sme.org/iccm14>.

26–29 January 2004

IMAC-XXII Conference and Exposition on Structural Dynamics, Dearborn, Michigan, Contact: Society for Experimental Mechanics Inc., 7 School Street, Bethel, CT 06801, USA, tel: 203.790.6373, fax: 203.790.4472, email: sem@sem1.com, web: www.sem.org.

7–10 June 2004

SEM 10th International Congress and Exposition on Experimental Mechanics, Costa Mesa, CA USA, Contact: Society for Experimental Mechanics Inc., 7 School Street, Bethel, CT 06801, tel: 203.790.6373, fax: 203.790.4472, email: sem@sem1.com, web: www.sem.org.

6–8 June 2005

SEM Annual Conference and Exposition on Experimental and Applied Mechanics, Portland, OR, Contact: Society for Experimental Mechanics Inc., 7 School Street, Bethel, CT 06801, tel: 203.790.6373, fax: 203.790.4472, email: sem@sem1.com, web: www.sem.org.

8–11 February 2005

IMAC-XXIII Conference and Exposition on Structural Dynamics, Kissimmee, FL, USA, Contact: Society for Experimental Mechanics Inc., 7 School Street, Bethel, CT 06801, tel: 203.790.6373, fax: 203.790.4472, email: sem@sem1.com, web: www.sem.org.

Send items for this calendar to:

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ERRATUM

*The Table of Contents for Vol. 24, No. 2 had incorrect folios. The journal regrets this error.
The Table of Contents, the papers, and paper citation should have included the folios listed below.*

Volume 24, Number 2

April 2002

CODEN: JCTRER

SPECIAL ISSUE IN HONOR OF DON OPLINGER

Preamble: In Memory of Don Oplinger L. B. Ilcewicz and E. A. Armanios	43–44
The Design of In-Plane Shear and Tension-Loaded Bonded Composite Lap Joints H. Kim and T. Kedward	45–55
Fatigue Life Methodology for Bonded Composite Skin/ Stringer Configurations R. Krueger, I. L. Paris, T. K. O'Brien, and P. J. Minguet	56–79
Characterization of Bondline Thickness Effects in Adhesive Joints J. Tomblin, P. Harter, W. Seneviratne, and C. Yang	80–92
Stress and Failure Analyses of Adhesive-Bonded Composite Joints Using ASTM D3165 Specimens H. Huang, C. Yang, J. S. Tomblin and P. Harter	93–104
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ERRATUM

Erratum/Correction of Krueger, R., Paris, I. L., O'Brien, T. K., Minguet, P. J., "Fatigue Methodology for Bonded Composite Skin/Stringer Configurations," JCTR 24 (2), April 2002, pp. 56–79.

On pages 76–77, Figures 29 and 30 were incorrect. The figures below replace the previous figures. The Journal regrets this error.

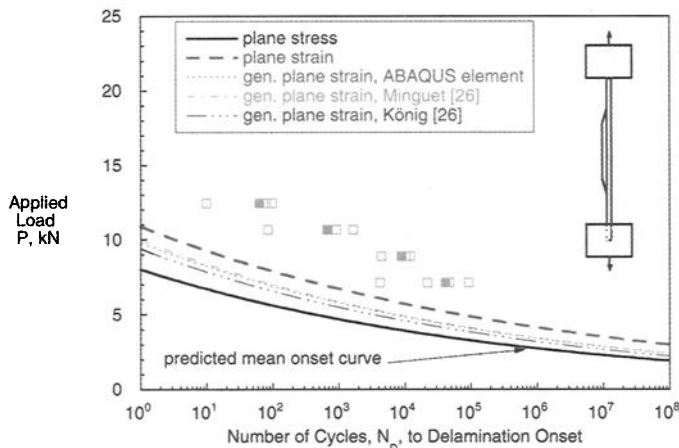


FIG. E1—Comparison of delamination onset prediction and experimental results.

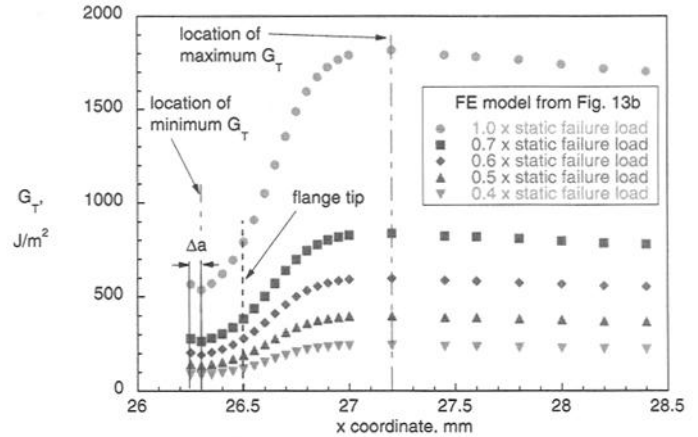


FIG. E2—Computed total strain energy release rate for delamination between top 45°/45° skin plies.

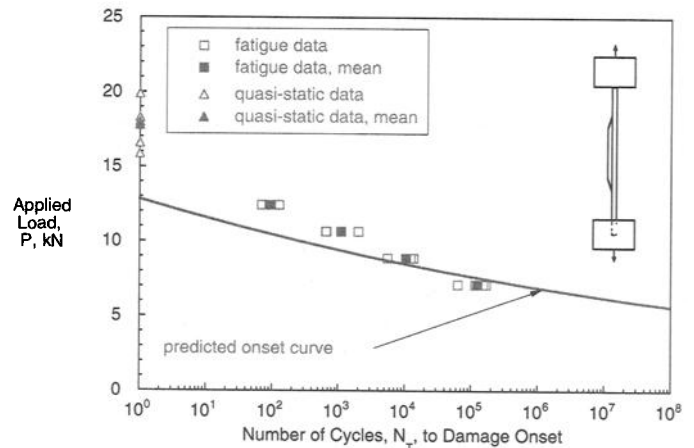


FIG. E3—Comparison of cumulative life prediction and experimental results.

INFORMATION FOR CONTRIBUTORS

Each published article and technical note is peer reviewed. Brief comments on a previously published article, the author's response to these comments, discussions of new approaches to data gathering, and critical reviews of books or computer programs require the approval of only the Editor-in-Chief. Letters to the editor are invited anytime.

Submission of Articles and Technical Notes*

Manuscripts may be submitted by e-mail 3½ in. floppy disk, zipped disk, CD, or printed copy. *All submissions* should contain two files—one with all text, tables, and figure captions and the other with all figures saved as TIFF images. Figures should not be embedded in the text.

All submissions should be keyed in English, using Microsoft Word® if submitted electronically, and double-spaced, with 1 in. (2.5 cm) margins on all sides. Pages must be consecutively numbered in single sequence in the order of text, tables, and figures. The text should include an informative abstract of 100 to 150 words and a list of 5 to 10 keywords that can be used to index the contents of the manuscript.

ASTM International policy requires the use of SI units in all text, tables, and figures. If English units must be used to present test results or to describe materials, equivalent SI units should follow in parentheses. Refer to *ASTM SI 10, Standard Practice for Use of the International System of Units (SI) (The Modernized Metric System)* for further information and examples.

Commercialism can be avoided by the use of generic terms where possible. Trademarks and trade names should be properly identified as such, if they are used.

For reference styles appropriate for this journal, see the ASTM web site at www.astm.org. Once there, go to *Technical Publications*, then *Services*, then *Publishing Guide*, then *Manuscript Preparation/Typeset Only* for instructions.

All tables should be placed together following the text and references. Tables should be identified with Arabic (not Roman) numbers, and cited in numerical order in the text. It is advisable to use several simple tables rather than one large, complex table.

A separate list of figure captions should follow the tables.

All figures (graphs, illustrations, photographs) should be placed together, following the figure captions, using consecutive Arabic (not Roman) numbers. Type size of text within figures must be large enough to be legible after reduction. The axes of each graph must be properly labeled, with specific units. Hard copy graphs or illustrations must be printed by a laser printer. All figures that are represen-

TABLE 1—Suggested page limits for double-spaced manuscripts.

Paper Type	No. of Pages
Full Paper	25 pages
Technical Note	9 pages
Discussion	3 pages
Closure	3 pages

tations of equipment or specimens must include scale marks. Photographs must be high-contrast and if electronic, must be 300 dpi.

All authors' names, mailing addresses, positions, and affiliations must be supplied in a cover letter. Additionally, telephone and fax numbers and an e-mail address are required for the submitting author only, who should also provide names, mailing addresses, affiliations, phone numbers, and e-mail addresses of five potential reviewers who are not employed by the same institution as any of the authors. The submitting author must state that the contents of the manuscript have not been published previously and that the manuscript is not under consideration for publication elsewhere. Manuscript length should not exceed 25 pages (including tables, figures, and appendices) for full articles and 9 pages for technical notes.

Technical Review

Each submitted manuscript that, in the opinion of the Technical Editor, fits the scope of this journal is processed for peer review. Two reviewers evaluate each paper, one evaluates each technical note. The reviewers consider technical merit, originality, soundness of data, reproducibility of results, logical conclusions, and clarity of presentation. Manuscripts that successfully complete the peer review process are returned to the authors for any necessary revisions.

Submissions require one master copy with original figures and one annotated copy (both accompanied by hard copies for reference). The *Author's Response Form* should be completed, showing where revisions were made, including any explanation concerning a suggested change not being made. The authors should also complete the *Author Agreement Form*, assigning copyright to ASTM.

The Technical Editor may either accept the revised manuscript for publication, accept it pending further revision, or reject it. A revised manuscript may be sent for reevaluation to a reviewer who had required revisions in the first submission.

Each manuscript accepted by the Technical Editor for publication is then assigned to the editorial staff to ensure compliance with ASTM conventions and appropriate English style and usage. Authors who submit electronically will receive an edited PDF file of their manuscript for review. The article is then set into print and each author's page proof is sent for their approval. Should the editorial staff not hear from the author by the designated deadline, approval is assumed and ASTM will proceed with publication.

*For complete instructions and necessary forms for the preparation of manuscripts, contact Harveyetta Edwards, Administrative Assistant, ASTM Journals, ph.: 610-832-9618, fax: 610-834-7051, or e-mail: hedwards@astm.org.