
CONTENTS

30-001 Analysis of AE Signals during Scratch Test on the Coated Paperboard
Hiro yuki Kishi, Akio Matudoe, Ken Yamashita, Shigeru Nagasawa and Yasushi Fukazawa

30-011 Acoustic Emission Related to Drought Stress Response of Four Deciduous Broad-Leaved Woody Species
Sabine Rosner

30-021 Micro-mechanical Damage in Tool Steels Analyzed by Acoustic Emission Technique
Ingrid Picas, Eva Martinez-Gonzalez, Daniel Casellas and Jordi Romeu

30-029 Viable Precursors of Paroxysmal Phenomena as Detected by Applying RQA to Acoustic Emission Time Series
Maurizio Poscolieri, Claudio Rafanelli and Giovanna Zimatore

30-040 Artificial Neural Network Analyses of AE Data during Long-Term Corrosion Monitoring of a Post-Tensioned Concrete Beam
Lucio Bonaccorsi, Luigi Calabrese, Giuseppe Campanella and Edoardo Proverbio

30-054 On the Use of the Acoustic Emission Technique for In-situ Monitoring of the Pulverization of Battery Electrodes
Aurélien Etiemble, Hassane Idrissi and Lionel Roué

30-064 AE Wavelet Processing in Dynamical Tests of a Reinforced Concrete Slab
Miguel E. Zitto, Rosa Piotrkowski, Antolino Gallego and Francisco Sagasta

30-076 Recent Advances of AE Technology for Damage Assessment of Infrastructures
Tomoki Shiotani

30-100 Preliminary Investigations of Acoustics Emission Signal from Snow and its Wavelet Transform
Karmjeet Singh, Yogesh C. Nagar, Jagdish C. Kapil, Pramod K. Satyawali and Ashwagosha Ganju

30-109 Attenuation of Lamb Waves in CFRP Plates
Kanj Ono and Antolino Gallego

30-124 Application of ICI Principle for AE Data Processing
Vera Barat, Sergey Elizarov, Irina Bolokhova and Evgeniy Bolokhov

30-137 Modeling of the Far-field Acoustic Emission from a Crack under Stress
Warida Ben Khalifa, Karim Jezzine, Sébastien Grondel, Gaëtan Hello and Alain Lhémery

30-152 Primary Calibration of Acoustic Emission Sensors by the Method of Reciprocity, Theoretical and Experimental Considerations
Thomas Monnier, Seydou Dia, Nathalie Godin and Fan Zhang

30-167 Neural Network Burst Pressure Prediction In Tall Graphite-Epoxy Pressure Vessels From Acoustic Emission Data
Eric v. K. Hill, Christopher J. Foti, Ning Y. Leung and Andrea E. Palacios
30-180 Research and Applications of AE on Advanced Composites
Kanji Ono and Antolino Gallego

Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting Calendar - AE Activity (EWGAE30/ICAЕ7)</td>
<td>I-2</td>
</tr>
<tr>
<td>Announcement</td>
<td>I-2</td>
</tr>
<tr>
<td>Authors Index of Volume 30</td>
<td>I-3</td>
</tr>
<tr>
<td>Policy/Author’s Notes</td>
<td>I-4 – I-5</td>
</tr>
<tr>
<td>Professor Steve Carpenter</td>
<td>I-6</td>
</tr>
</tbody>
</table>

Cover illustration: From EWGAE30-ICAE7, Granada, Spain.

JAE Index Folder* Cumulative Indices of J. of Acoustic Emission, 1982 – 2012
JAE-Contents1-30 Contents of Volumes 1-30
JAE-Authors Index1-30 Authors Index Volumes 1-30
Comprehensive Authors Index (2012) is also included.

* indicates the availability in CD-ROM only. Indices are also available for download from www.aewg.org.

Meeting Calendar

AEWG 55

The 55th Meeting on Acoustic Emission Working Group will be held on June 11-12, 2013 at Garden Grove, CA. The host is Dr. Jerry Huang of Boeing (jerry.q.huang@boeing.com). More information is available at www.aewg.org. For accommodation, contact Crowne Plaza Anaheim Resort at http://www.anaheim.crowneplaza.com/

AE Activity

EWGAE30-International Conf. on AE 7, 2012

Information on this successful conference is available at www.ewgae.es, including Program and Proceedings in downloadable pdf file. See also a report on the conference at http://www.ndt.net/search/docs.php3?id=13636&content=1

Announcement

With the publication of this volume, this Journal will shift to the open-access mode, terminating the paper/CD distribution and subscription services. I wish to thank all of you, authors, reviewers, co-editors, book agencies and readers, who have supported this Journal for the past 32 years. Some of the reasons for the founding of this publication have faded as there are so many venues for quality publications. In particular, academic authors require impact factors, which are incompatible with our goals. We will continue providing a forum in timely manner with web-based distribution, rather than annual basis, with rigorous review as in the past to maintain the quality we have sustained. We hope future contributors and readers keep the confidence in Journal of Acoustic Emission in the new approach for disseminating the information useful to the global AE community.

Kanji Ono, Editor and Publisher
Authors Index, Volume 30, 2012

Vera Barat 30-124
Evgeniy Bolokhov 30-124
Irina Bolokhova 30-124
Luigi Calabrese 30-040
Giuseppe Campanella 30-040
Daniel Casellas 30-021
Seydou Dia 30-152
Sergey Elizarov 30-124
Aurélien Etieemble 30-054
Christopher J. Foti 30-167
Yasushi Fukuzawa 30-001
Antolino Gallego 30-064, 30-109, 30-180
Ashwagosha Ganju 30-100
Nathalie Godin 30-152
Sébastien Grondel 30-137
Gaëtan Hello 30-137
Eric v. K. Hill 30-167
Hassane Idrissi 30-054
Karim Jezzine 30-137
Jagdish C. Kapil 30-100
Warida Ben Khalifa 30-137
Hiroyuki Kishi 30-001
Ning Y. Leung 30-167
Alain Lhémery 30-137
Eva Martinez-Gonzalez 30-021
Akio Matudoe 30-001
Thomas Monnier 30-152
Yogesh C. Nagar 30-100
Shigeru Nagasawa 30-001
Kanji Ono 30-109, 30-180
Andrea E. Palacios 30-167
Ingrid Picas 30-021
Rosa Piotrkowski 30-064
Maurizio Poscolieri 30-029
Edoardo Proverbio 30-040
Claudio Rafanelli 30-029
Jordi Romeu 30-021
Sabine Rosner 30-011
Lionel Roué 30-054
Francisco Sagasta 30-064
Pramod K. Satyawali 30-100
Tomoki Shiotani 30-076
Karmjeet Singh 30-100
Ken Yamashita 30-001
Fan Zhang 30-152
Giovanna Zimatore 30-029
Miguel E. Zitto 30-064
JOURNAL OF ACOUSTIC EMISSION

Editor: Kanji Ono  
Associate Editors: A. G. Beattie, T. F. Drouillard, M. Ohtsu and W. H. Prosser

1. Aims and Scope of the Journal

Journal of Acoustic Emission is an international journal designed to be of broad interest and use to both researcher and practitioner of acoustic emission. It will publish original contributions of all aspects of research and significant engineering advances in the sciences and applications of acoustic emission. The journal will also publish reviews, the abstracts of papers presented at meetings, technical notes, communications and summaries of reports. Current news of interest to the acoustic emission communities, announcements of future conferences and working group meetings and new products will also be included.

Journal of Acoustic Emission includes the following classes of subject matters:

A. Research Articles: Manuscripts should represent completed original work embodying the results of extensive investigation. These will be judged for scientific and technical merit.

B. Applications: Articles must present significant advances in the engineering applications of acoustic emission. Material will be subject to reviews for adequate description of procedures, substantial database and objective interpretation.

C. Technical Notes and Communications: These allow publications of short items of current interest, new or improved experimental techniques and procedures, discussion of published articles and relevant applications.

D. AE Program and Data Files: Original program files and data files that can be read by others and analyzed will be distributed in CD-ROM.

Reviews, Tutorial Articles and Special Contributions will address the subjects of general interest. Nontechnical part will cover book reviews, significant personal and technical accomplishments, current news and new products.

2. Endorsement

Acoustic Emission Working Group (AEWG), European Working Group on Acoustic Emission (EWGAE), have endorsed the publication of Journal of Acoustic Emission.

3. Governing Body

The Editor and Associate Editors will implement the editorial policies described above. The Editorial Board will advise the editors on any major change. The Editor, Professor Kanji Ono, has the general responsibility for all the matters. Associate Editors assist the review processes as lead reviewers. The members of the Editorial Board are selected for their knowledge and experience on AE and will advise and assist the editors on the publication policies and other aspects. The Board presently includes the following members:

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5. Subscription

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6. Advertisement

No advertisement will be accepted, but announcements for books, training courses and future meetings on AE will be included without charge.
Notes for Contributors

1. General

The Journal will publish contributions from all parts of the world and manuscripts for publication should be submitted to the Editor. Send by e-mail or to:

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The language of the Journal is English. All papers should be written concisely and clearly.

2. Page Charges

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3. Manuscript for Review

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References to published literature should be quoted in the text citing authors and the year of publication or consecutive numbers. These are to be grouped together at the end of the paper. Journal references should be arranged as below. Titles for journal or book articles are helpful for readers, but may be omitted.


Abbreviations of journal titles should follow those used in the ASM Metals Abstracts. In every case, authors' initials, appropriate volume and page numbers should be included. The title of the cited journal reference is optional.

Illustrations and tables should be planned to fit a single page width (165 mm or 6.5”). For the reviewing processes, these need not be of high quality, but submit glossy prints or equivalent electronic files with the final manuscript. Lines and letters should be legible.

4. Review

All manuscripts will be judged by qualified reviewer(s). Each paper is reviewed by one of the editors and may be sent for review by members of the Editorial Board. The Board member may seek another independent review. In case of disputes, the author may request other reviewers.

5. Electronic Media

This Journal will be primarily distributed electronically by CD-ROM. In order to expedite processing and minimize errors, the authors are requested to submit electronic files of the paper. On the INTERNET, you can send an MS Word file and the separate figure files (in JPEG or other formats) to "aegroup7@gmail.com".

6. Color Illustration

With the new format, authors are encouraged to use them.
Steve H. Carpenter (1938 – 2012)

Steve H. Carpenter, John Evans Professor Emeritus, Department of Physics, University of Denver, of Littleton, CO, passed away June 10, 2012. He was 74. He was internationally known for his acoustic emission research, especially on the plastic deformation of metals and hydrogen effects and for resonance measurements of crack detection. He contributed over one hundred papers on AE alone. Born May 15, 1938, in Cedar City, UT, he has been an active member of the Church of Jesus Christ of Latter-day Saints and is survived by his wife, Marie, by his four children, Michelle, Kerri, Stephanie and Christopher, and 15 grandchildren.

After getting BS (1959) and PhD (1964) in Physics from University of Utah, Steve was at Aerojet General Corp. and joined the faculty of University of Denver in 1965, and has been full professor since 1974. From 1984, he also worked part time at Rocky Flats Plant. He gave 1987 University Lecture on AE entitled “Materials Cry when Stressed”. He served as chairman of Physics Dept. and as head of DRI. Steve lectured in many countries as visiting professor/scientist, including New Zealand, Australia, Europe, USSR (now Belarus), China and Japan. He was a Fulbright-Hayes scholar and the recipient of the AEWG Achievement and Gold Medal Awards for outstanding contributions in scientific understanding of acoustic emission. Steve also received the AEWG Publication Award with Clint Heiple. He was a fellow of APS, a charter fellow of AEWG and also member of ASM International, TMS-AIME, and ASNT. Steve served as Chairman of AEWG in 1990-1992.

He will be dearly missed by his family, friends and colleagues from around the world.

Kanji Ono