ACM SIGAda FACT SHEET

The ACM Special Interest Group on Ada Programming Language

A powerful resource for the software community's ongoing understanding of the scientific, technical and organizational aspects of Ada language's use, standardization, environments, and implementations.

URL: [http://www.acm.org/sigada/](http://www.acm.org/sigada/)

Mission Statement

The ACM SIG on Ada deals with the Ada language and a broad span of issues related to its usage, teaching, standardization, and implementation. SIGAda members include practitioners, educators, researchers, and managers from a wide range of organizations in industry, academia, and government. Among the topics that SIGAda addresses are software engineering practice (with a particular focus on object tech.), real-time applications, high-integrity & safety-critical systems, high-integrity and safety-critical systems, software education, and large-scale system development. SIGAda explores these issues through an annual multi-track international conference, special-purpose Working Groups, active local chapters, and its quarterly Ada Letters publication.

Demographics

Design, implementation and maintenance of software systems. Software development, management or procurement of software-intensive systems.

Awards

Outstanding Ada Community Contribution
Recognizes broad, lasting contribute to overall state of Ada Technology and usage

ACM SIGAda Distinguished Service
Recognizes exceptional "volunteer" contribute to SIGAda activities and products
Welcome to this issue of Ada Letters. In this issue Randal Andress has described how the existing techniques to transfer of binary data between systems of different bit and byte order – Big-Endian (most significant first) vs. Little-Endian (least significant first) have been extended to develop a new, systematic method for coding Ada record component representations so that the same declaration may be used to define an input/output object of a communications link (or “flat” file) to achieve complete endian independence. Christoph Grein in his paper characterizes how to control the re-emergence of the pre-defined equality in Ada 95.

No issue would be complete without an update on reusable components from a regular Ada Letters contributor, Trudy Levine. This time in addition to reusable components, Trudy defined that many Ada constructs assist in the control of various anomalies of computer systems. In her paper on Control Intrusion she discusses two classes of anomalies that are shown to have similar characteristics. The first of these classes involves the mutual exclusion problem, for which there exists considerable literature within the Ada community.

This time Ada Letters also publishes the Ada Action Items starting with “Real Time AIs”. In beginning, first five Real Time AIs AI 00249 - Ravenscar profile for high-integrity systems AI 00297 - Timing events AI 00298 - Non-Preemptive Dispatching AI 00303 - Removal of library-level requirement for interrupt handler objects AI 00305 - New pragma and additional restriction identifiers for real-time systems, has been published which also includes considerable email exchanges among the developers so that the users could grasp the thoughts behind these improvements.

Of interest to all Ada users and enthusiasts is the new revision to the Ada language, Ada 2005. Inside you’ll find information on SIGAda 2005 (November 13-17 in Atlanta) and Ada-Europe 2006 (5-9 June 2006 in Porto, Portugal). These conferences will be great opportunities to learn more about what is in the new revision of the Ada language, and how implementations of Ada 2005 are accomplished, as well as other research and industry uses of Ada.

Ada Letters would be a great place to submit articles on your experiences with the language revision, tips on how to do things with the new language features, as well as to describe success stories using Ada. We’ll look forward to your submission. You can submit either a MS Word or Adobe PDF file (with 1” margins and no page numbers) to our technical editor:

Pat Rogers, Ph.D.
AdaCore
207 Charleston, Friendswood, TX 77546 (USA)
+1 281 648 3165 rogers@adacore.com

We look forward to hearing from you!

Alok Srivastava, Ph.D.
Air Traffic Control Systems Development
Northrop Grumman
Washington, DC 20024 (USA)
+1 202 314 1419 Alok.Srivastava@AUATAC.Com
Editorial Policy (from Alok Srivastava, Managing Editor)

As the editor of Ada Letters, I’d like to thank you for your continued support of ACM SIGAda, and encourage you to submit articles for publication. In addition, if there is some way we can make Ada Letters more useful to you, please let me know. Note that Ada Letters is now on the web! See [http://www.acm.org/sigada/ada_letters/index.html](http://www.acm.org/sigada/ada_letters/index.html). The newest two issues are available only to SIGAda members. Older issues beginning March 2000 are available to all.

Now that Ada is standing on its own merits without the support of the DoD, lots of people and organizations have stepped up to provide new tools, mechanisms for compiler validation/assessment, and standards (especially ASIS). Ada Letters is a venue for you to share your successes and ideas with others in the Ada community—be sure to take advantage of it so that we can all benefit from each other’s learning and experience.

Currently Ada Letters is published four times a year, with the exception of special issues. As some of the other ACM Special Interest Group periodicals will change, Ada Letters will also be transitioning from quarterly to a **tri-annual publication**. The revised tentative schedules during the transition period and submission deadlines are as follows:

<table>
<thead>
<tr>
<th>Deadline</th>
<th>Issue</th>
<th>Deadline</th>
<th>Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 1st, 05</td>
<td>December 2005</td>
<td>February 1st, 06</td>
<td>April 2006</td>
</tr>
<tr>
<td>June 1st, 06</td>
<td>August 2006</td>
<td>October 1st, 06</td>
<td>December 2006</td>
</tr>
</tbody>
</table>

Please send your article to Dr. Pat Rogers at rogers@adacore.com

**Guidelines for Authors**

Letters, announcements and book reviews should be sent directly to the Managing Editor and will normally appear in the corresponding next issue.

Proposed articles are to be submitted to the Technical Editor. Any article will be considered for publication, provided that topic is of interest to the SIGAda membership. Previously published articles are welcome, provided the previous publisher or copyright holder grants permission. In particular, keeping with the theme of recent SIGAda conferences, we are particularly interested in submissions that demonstrate that “Ada Works.” For example, a description of how Ada helped you with a particular project or a description of how to solve a task in Ada are suitable.

Although Ada Letters is not a refereed publication, acceptance is subject to the review and discretion of the Technical Editor. In order to appear in a particular issue, articles must be submitted far enough in advance of the deadline to allow for review/edit cycles. Backlogs may result in an article's being delayed for two or more issues. Contact the Managing Editor for information on the current publishing queue.
Articles should be submitted electronically in one of the following formats: MS Word (preferred) Postscript, or Adobe Acrobat. All submissions must be formatted for US Letter paper (8.5” x 11”) with one inch margins on each side (for a total print area of 6.5” x 9”) with no page numbers, headers or footers. Full justification of text is preferred, with proportional font (preferably Times New Roman, or equivalent) of no less than 10 points. Code insertions should be presented in a non-proportional font such as Courier.

The title should be centered, followed by author information (also centered). The author's name, organization name and address, telephone number, and e-mail address should be given. For previously published articles, please give an introductory statement (in a distinctive font) or a footnote on the first page identifying the previous publication. ACM is improving member services by creating an electronic library of all of its publications. Read the following for how this affects your submissions.

**Notice to Contributing Authors to SIG Newsletters:**

By submitting your article for distribution in this Special Interest Group publication, you hereby grant to ACM the following non-exclusive, perpetual, worldwide rights:

- to publish in print on condition of acceptance by the editor
- to digitize and post your article in the electronic version of this publication
- to include the article in the ACM Digital Library
- to allow users to copy and distribute the article for noncommercial, educational or research purposes

However, as a contributing author, you retain copyright to your article and ACM will make every effort to refer requests for commercial use directly to you.

**Notice to Past Authors of ACM-Published Articles**

ACM intends to create a complete electronic archive of all articles and/or other material previously published by ACM. If you have written a work that has been previously published by ACM in any journal or conference proceedings prior to 1978, or any SIG Newsletter at any time, and you do NOT want this work to appear in the ACM Digital Library, please inform permissions@acm.org, stating the title of the work, the author(s), and where and when published.

**Back Issues**

Back issues of Ada Letters can be ordered at the price of $6.00 per issue for ACM or SIGAda members; and $9.00 per issue for non-ACM members. Information on availability, contact the ACM Order Department at 1-800-342-6626 or 410-528-4261. Checks and credit cards only are accepted and payment must be enclosed with the order. Specify volume and issue number as well as date of publication. Orders must be sent to:

ACM Order Department, P.O. Box 12114, Church Street Station, New York, NY 10257 or via FAX: 301-528-8550.
KEY CONTACTS

**Technical Editor**
*Send your book reviews, letters, and articles to:*

Pat Rogers  
AdaCore  
207 Charleston  
Friendswood, TX 77546  
+1-281 648 3165  
rogers@adacore.com

**Managing Editor**  
*Send announcements and short notices to:*

Alok Srivastava  
Northrop Grumman  
Room 5138  
475 School Street, SW  
Washington DC 20024  
+1-202-314-1419  
Alok.Srivastava@auatac.com

**Advertising**  
*Send advertisements to:*

William Kooney  
Advertising/Sales Account Executive  
ACM, 1515 Broadway  
New York, NY 10036  
+1-212-626-0687  
Fax: +1-212-869-0481

**Local SIGAdas**  
*Send Local SIGAda address changes to:*

Chris B. Sparks  
6584 W. Wilhoit Way  
Marana, AZ 85743  
mr_ada@comcast.net

**Ada Events**  
*Send Meeting and Conference Info to:*

Kathleen Guroy  
Software Compositions  
P.O. Box 510477  
Melbourne Beach, FL 32951-0477  
4-407-952-0430  
Fax: +1-407-952-7716  
swcinfo@aol.com

**Ada CASE and Design Language Developers**  
**Matrix**  
*Send ADL and CASE product Info to:*

Judy Kerner  
The Aerospace Corporation  
Mail Stop M8/117  
P.O. Box 92957  
Los Angeles, CA 90009  
+1-310-336-3131  
kerner@aero.org

**Ada Around the World**  
*Send Foreign Ada organization info to:*

Dirk Craeynest  
c/o OFFIS nv/sa – Aubay Group  
Gatti de Gamondstraat 145  
B-1180 Brussel  
Belgium  
Phone: +32-2-725 40 25  
Fax : +32-2-725 40 12  
e-mail : Dirk.Craeynest@offis.be

**Reusable Software Components**  
*Send info on reusable software to:*

Trudy Levine  
Computer Science Department  
Fairleigh Dickinson University  
Teaneck, NJ 07666  
+1-201-692-2000  
levine@alpha.fdu.edu
SIGAda Working Group Chairs
See http://www.acm.org/sigada/ for most up-to-date information

Ada Application Programming Interfaces WG
(Under formation)
Geoff Smith
IBM Rational Software
15300 SW Koll Parkway
Beaverton, OR 97006
503-578-3571
Fax: 503-578-3571
gsmith@us.ibm.com

Ada Semantic Interface Specification WG
http://www.acm.org/sigada/wg/asiswg/asiswg.html
Currie Colket
The MITRE Corporation
1820 Dolley Madison Boulevard
McLean, Virginia 22102-3481
703-883-7381
Fax: 703-883-1339
colket@mitre.org, colket@acm.org

Commercial Ada Users WG
http://www.acm.org/sigada/wg/cauwg/cauwg.html
Ann Eustice Brandon
Ada Information Clearing House
RD1, Box 453
South Randolph Road
Randolph Center, VT 05061
802-728-9947
Fax: 802-727-4795 (call first)
eusticae@sw-eng.falls-church.va.us

Education WG
http://www.acm.org/sigada/wg/eduwg/eduwg.html
Mike Feldman
Dept. of Electrical Engineering and
Computer Science
The George Washington University
Washington, DC 20052
202-994-5253
Fax: 202-994-0227
mfeldman @ seas.gwu.edu

Standards WG
Robert Dewar
73 5th Ave.
New York, NY 10003
212-741-0957
Fax: 232-242-3722
dewar@cs.nyu.edu
Ada Around the World
(National Ada Organizations)

From: http://www.ada-europe.org/members.html

Ada-Europe Secretary General
Erhard Plödereder
University of Stuttgart
Institute for Computer Science
Breitwiesenstr. 20-22
D-70565 Stuttgart
Germany
Ph: +49-711-7816-322
Fax: +49-711-7816-380
e-mail : ploe@informatik.uni-stuttgart.de
http://www.ada-europe.org/

Ada-Belgium
Dirk Craeynest
C/o OFFIS nv/sa – Aubay Group
Gatti de Gamonstraat 145
B-1180 Brussel
Belgium
Phone: +32-2-725 40 25
Fax : +32-2-725 40 12
e-mail : Dirk.Craeynest@offis.be
http://www.cs.kuleuven.ac.be/~dirk/ada-belgium

Ada in Denmark
Jorgen Bundgaard
c/o DDC-I
Gl. Lundtoftevej 1B
2800 Lyngby
Denmark
Phone: +45-45-87 11 44
Fax : +45-45-87 22 17
e-mail : jb@ddci.dk
http://www.ada-dk.org/

Ada in Germany
Dr. Peter Dencker
Aonix GmbH
Durlacher Allee 95
76137 Karlsruhe
Germany
Phone: +49-721-986 53-22 (mobile: +49-172-9509944)
Fax : +49-721-986 53-98
e-mail : dencker@aonix.de
http://ada-deutschland.de/

Ada-France
Association Ada-France
c/o Samuel Tardieu
Département Informatique et Réseau
École Nationale Supérieure des Télécommunications

Ada in France
46, rue Barrault
75634 Paris Cedex 135
France
e-mail : bureau@ada-france.org
http://www.ada-france.org/

Ada Spain
Attn: J. Javier Gutierrez
P.O. Box 50.403
28080 Madrid
Spain
Phone: +34-942-201394
Fax : +34-942-201402
e-mail : gutierjj@unican.es
http://www.adaspain.org/

Ada in Sweden
C/o Mariadata
Box 1085
SE-141 22 Huddinge
Sweden
Phone : +46 08 779 88 30
Fax : +46 08 774 37 93
Email : info@ada-i-sverige.se
http://www.ada-i-sverige.se/

Ada in Switzerland
Attn. Alfred Strohmeier
Software Engineering Laboratory
Swiss Federal Institute of Technology Lausanne
CH-1015 Lausanne EPFL
Switzerland
Phone: +41-21-693 42 31
Fax: +41-21-693 50 79
e-mail: Alfred.strohmeier@epfl.ch
http://lglwww.epfl.ch/Ada-in-Switzerland

Ada UK User Group
C/o Adaxia Ltd
P.O. Box 376
Chesterfield, S427YB
United Kingdom
Phone: +44+1246 567468
Fax : +44+1246 567339
e-mail : AdaUK@Adaxia.com
http://www.adauk.org.uk/

In Italy, contact tullio.vardanega@math.unipd.it