

From the Editor's Desk

Alok Srivastava

Welcome to this issue of Ada Letters. In this issue you will find details on the successful SIGAda 2008 annual conference which also celebrated the 30th anniversary of Steelman and the 25th anniversary of the Ada 83 standard.

An interesting paper "System Level Hardware Design and Simulation with System Ada" by Negin Mahani, Parnian Mokri, Zainalabedin Navabi, is underlining the Ada research in Asia. Regular Ada Letters contributor, Trudy Levine provided an update on reusable Ada software components. Technical Editor Pat Rogers has compiled another list of selected AdaCore developed Ada 2005 Gems published in this issue.

Inside you'll find information on SIGAda 2009 Conference on Ada and Related Technologies: Engineering Safe, Secure, and Reliable Software to be held from November 1-5 at Tampa Bay, Florida and 14th International Conference on Reliable Software Technologies - Ada-Europe 2009 from June 8-12 at Telecom Bretagne, Brest, France. 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. March 2009 brought another successful Ada Conference "The Ada Conference UK 2009", organized to promote awareness of the Ada programming language and to highlight the increased relevance of Ada in safety- and security-critical programming.

In mid-February, I was invited to give a talk on Software Assurance and Languages for High Reliability Safety-Critical Systems at the International Power Generation Conference held in New Delhi, India. The event was inaugurated by India's Power Minister Mr. Shinde and hosted by India's largest power generation corporation. Commerce and Industry Minister Mr. Jairam Ramesh who is a graduate of Carnegie Mellon and MIT also attended the conference. India is making huge investments in nuclear power generation thereby providing enormous opportunities in development of highly reliable, secure and safety critical systems. To further promote Ada, I participated in the ACM sponsored 2nd India Software Engineering Conference (ISEC) at Pune, India, held in the third week of Feb. I met top managers of large India based IT companies such as Wipro, Tata Consulting Services (TCS), InfoSys and computer science faculties of IITs specially IIT Kanpur, University of Delhi and All India Institute of Medical Sciences etc. I also had fruitful discussions with Computer Society of India (CSI) Officers to mutually promote ACM, SIGAda and CSI. Year 2010 ISEC will be held in Mysore near Bangalore, India. The organizers are looking for Ada experts to conduct Tutorials and Workshop on Safety Critical Systems at the conference.

Ada Letters is 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 Corporation
475 School St, SW; 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. The two newest 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). The Ada 2005 language version is fulfilling the market demand of robust safety and security elements and thereby generating a new enthusiasm into the software development. 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.

As some of the other ACM Special Interest Group periodicals have moved, Ada Letters also transitioned from quarterly to a **tri-annual publication**. With exception of special issues, Ada Letters now is going to be published three times a year, with the exception of special issues. The revised schedules and submission deadlines are as follows:

Deadline	Issue	Deadline	Issue
June 1 st , 09	August 2009	October 1 st , 09	December 2009
February 1 st , 10	April 2010	June 1 st , 10	August 2010

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 next corresponding 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 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 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
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
2 Penn Plaza, Suite 701
New York, NY 10121-0701
Phone: +1-212-869-7440
Fax: +1-212-869-0481

Local SIGAda Matters

Send Local SIGAda related matters to:

William O. Glascoe III, Center of Excellence
4321 Hartwick Road, Suite 400
College Park, MD 20740
+1-301-405-9985
Wglascoe@CSC.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 K.U.Leuven, Dept. of Computer Science,
Celestijnenlaan 200-A, B-3001 Leuven (Heverlee)
Belgium
Dirk.Craeynest@cs.kuleuven.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 (WG) Chairs

See <http://www.acm.org/sigada/> for most up-to-date information

Ada Application Programming Interfaces WG

Geoff Smith
Lightfleet Corporation
4800 NW Camas Meadows Drive
Camas, WA 98607
Phone: 503-816-1983
Fax: 360-816-5750
gsmith@lightfleet.com

Standards WG

Robert Dewar
73 5th Ave.
New York, NY 10003
Phone: 212-741-0957
Fax: 232-242-3722
dewar@cs.nyu.edu

Ada Semantic Interface Specification WG

<http://www.acm.org/sigada/wg/asiswg/asiswg.html>
Bill Thomas
The MITRE Corp
7515 Colshire Drive
McLean, VA 22102-7508
Phone: 703-983-6159
Fax: 703-983-1339
Email: BThomas@MITRE.Org

Education WG

<http://www.sigada.org/wg/eduwg/eduwg.html>
Mike Feldman
420 N.W. 11th Ave., #915
Portland, OR 97209-2970
Email: MFeldman@seas.gwu.edu

Ada Around the World (National Ada Organizations)

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

Ada-Europe

Tullio Vardanega
University of Padua
Department of Pure and Applied
Mathematics
Via Trieste 63
I-35121, Padova, Italy
Phone: +39-049-827-1359
Fax: +39-049-827-1444
e-mail: tullio.vardanega@math.unipd.it
<http://www.ada-europe.org/>

Ada-Belgium

Dirk Craeynest
C/o K.U.Leuven, Dept. of Computer
Science, Celestijnenlaan 200-A, B-3001
Leuven (Heverlee), Belgium
Phone: +32-2-725 40 25
Fax : +32-2-725 40 12
e-mail: Dirk.Craeynest@cs.kuleuven.be
<http://www.cs.kuleuven.be/~dirk/ada-belgium/>

Ada in Denmark

Jørgen Bundgaard
e-mail: Info at Ada-DK.org
<http://www.Ada-DK.org/>

Ada-Deutschland

Peter Dencker, Steinackerstr. 25
D-76275 Ettlingen-Spessart, Germany
e-mail: dencker@parasoft.de
<http://www.ada-deutschland.de/>

Ada-France

Association Ada-France
c/o Jérôme Hugues
Département Informatique et Réseau
École Nationale Supérieure des
Télécommunications, 46, rue Barrault
75634 Paris Cedex 135, France
e-mail: bureau@ada-france.org
<http://www.ada-france.org/>

Ada Spain

J. Javier Gutiérrez
P.O. Box 50.403
E-28080 Madrid, Spain
Phone: +34-942-201394
Fax : +34-942-201402
e-mail: gutierjj@unican.es
<http://www.adaspain.org/>

Ada in Sweden

Rei Stråhle
Box Saab Systems
S:t Olofsgatan 9A
SE-753 21 Uppsala, Sweden
Phone: +46-73-437-7124
Fax : +46-85-808-7260
e-mail: Rei.Strahle@saabgroup.com
<http://www.ada-i-sverige.se/>

Ada in Switzerland

Ahlan Marriott
White Elephant GmbH
Postfach 327
CH-8450 Andelfingen, Switzerland
Phone: +41 52 624 2939
Fax : +41 52 624 2334
e-mail: ada@white-elephant.ch
<http://www.ada-switzerland.org/>

Italy

Contact: tullio.vardanega@math.unipd.it

Ada-Europe Secretariat

e-mail: secretariat@ada-europe.org