

# OOD AND ADA BIBLIOGRAPHY

Due to the great interest within the Ada Community in Object-Oriented Development (OOD) methods and their use on Ada projects (and since I have to do the work anyway to support my "OOD in Ada" training course), I have decided to collect and publish in *Ada Letters* a relatively comprehensive bibliography of papers, articles, and books related to OOD and Ada. Topics include (but are not limited to) Ada-oriented OOD methods, their evaluation, and their use on Ada projects. Because updates to this bibliography will be published periodically along the lines of the Ada Design Language Developers Matrix, please contact Donald Firesmith at the following address with corrections or information on missing entries. Sending a copy of brief articles from less-common sources (in addition to source information) would help in verifying appropriateness for inclusion and would also be greatly appreciated.

**Mr. Donald G. Firesmith, President  
Advanced Software Technology Specialists  
17124 Lutz Road  
Ossian, IN 46777-9406**

**Phone: (219) 639-6305  
FAX: (219) 747-9389**

Abbott, Russell J.

*Program Design By Informal English Descriptions,  
Communications of the ACM, Volume 26, Number 11,  
Pages 882-895, November 1983.*

Report on Teaching Ada.  
SAI Technical Report SAI-81-313-WA,  
December 1980.

Agresti, William W.

*SEL Ada Experiment: Status and Design Experiences,  
11th Annual Software Engineering Workshop Proceedings.  
Pages TBD, December 1986.*

Air Training Command

Object Oriented Design.  
Student Handout 90P 886,  
USAF Technical Training School, Keesler AFB, Mississippi,  
May 1989 (see also January 1987 version).

- Alabiso, Bruno  
*Object-Oriented Design,*  
The CASE Report,  
September-October 1987.
- Transformation of Data Flow Analysis Models to Object-Oriented Design,*  
OOPSLA'88 Conference Proceedings,  
SIGPLAN Notices, Volume 23, Number 11,  
Pages 335-353, November 1988.
- Alford, Mack W.  
*Object-Oriented Systems Engineering,*  
Methodologies and Tools for Real Time Systems Conference Proceedings,  
Section B (missing), 14-15 November 1988.
- Ambriola, Vincenzo and Bendix, Lars  
*Object-Oriented Configuration Control,*  
2nd International Workshop on Software Configuration Management  
Proceedings,  
ACM SIGSOFT Software Engineering Notes, Volume 17, Number 7,  
Pages 133-136, 24 October 1989.
- Anderson, John A. et. al.  
*Automated Object-Oriented Requirements Analysis and Design,*  
Sixth Washington Ada Symposium (WADAS) Conference Proceedings,  
Pages 265-272, 26-29 June 1989.
- Applebe, William F.  
*Abstract Data Types in Ada,*  
Journal of Pascal and Ada,  
Pages 26-36, January/February 1984.
- Bach, William W.  
*Is Ada Really an Object-Oriented Programming Language?*  
AdaExpo'88 Conference Proceedings,  
Section 17, 9-12 October 1988.
- Bailin, Sidney C.  
*An Automated Quality Assessor for Ada Object-Oriented Designs,*  
Fortieth IEEE National Aerospace and Engineering Conference (NAECON)  
Proceedings,  
Pages TBD, May 1988.
- An Object-Oriented Requirements Specification Method,*  
Communications of the ACM, Volume 32, Number 5,  
Pages 608-632, May 1989.

An Object-Oriented Requirements Specification Method for Ada,  
Fifth Washington Ada Symposium (WADAS) Conference Proceedings,  
Pages 139-150, 27-30 June 1988.

Remarks on Object-Oriented Requirements Specification,  
Methodologies and Tools for Real Time Systems Conference Proceedings,  
Pages H1-H11, 14-15 November 1988.

Baler, Clifford E.  
*Developing Object-Oriented Software in Ada,*  
MITRE,  
1989.

Berard, Ed V. et. al.  
*Object-Oriented Design for Ada Software,*  
EVB Software Engineering, Inc.

Object-Oriented Design Handbook,  
EVB Software Engineering, Inc.  
1985.

Object-Oriented Development,  
Methodologies and Tools for Real-Time Systems Conference Proceedings,  
Pages E1-E27, 2-3 March 1987.

Object-Oriented Development for Ada Software,  
EVB Software Engineering, Inc.  
1989.

Object-Oriented Requirements Analysis,  
EVB Software Engineering, Inc.  
1989.

Berzins, Valdis; Gray, Michael; and Naumann, David  
*Abstraction-Based Software Development,*  
Communications of the ACM, Volume 29, Number 5,  
Pages 402-415, May 1986.

Besemer, Y.  
*An Introduction to Object-Oriented Design and Programming,*  
CASE Outlook,  
September 1987.

Birchenough, Alan and Cameron, John R.  
*JSD and Object-Oriented Design,*  
JSP & JSD: The Jackson Approach to Software Development, 2nd Ed.,  
IEEE Computer Society,  
1989.

Booch, Grady

*Dear Ada,*

Ada Letters, Volume 3, Number 6,  
Pages 22-25, May-June 1983.

*Dear Ada,*

Ada Letters, Volume 4, Number 6,  
Pages 21-26, May-June 1984.

*Object-Oriented Design,*

Ada Letters, Volume 1, Number 3,  
Pages 64-76, March-April 1982.

Object-Oriented Design,

Benjamin/Cummings Publishing Company,  
1090.

*Object-Oriented Development*

IEEE Transactions on Software Engineering, Volume SE-12, Number 2,  
Pages 211-221, February 1986.

*On the Concepts of Object-Oriented Design,*

OOPSLA'88 Tutorial 5A,  
25 September 1988.

Software Components with Ada - Structures, Tools, and Subsystems,

Benjamin/Cummings Publishing Co., Menlo Park, California,  
1987.

Software Engineering with Ada, Second Edition,

Benjamin/Cummings Publishing Co., Menlo Park, California,  
1987.

Bowman, William and Nies, Steve

*Requirements Specification using the Ada Object-Oriented Approach,*  
First International Conference on Ada Applications for the NASA Space  
Station Proceedings,

Pages TBD, 1986.

Boyd, Stowe

*Object-Oriented Design and PAMELA: A Comparison of Two Design Methods  
for Ada,*

Ada Letters, Volume 7, Number 4,  
Pages 68-78, July-August 1987.

*Object-, Process-, and Behavior-Oriented Methods for Ada,*

Methodologies and Tools for Real Time Systems Conference Proceedings,  
Pages M1-13, 2-3 March 1987.

- Brown, Russel J.  
*Requirements Analysis for OOD*  
Wright State University,  
Winter 1988.
- Developing Object-Oriented Designs from Functional Requirements: Two Case Studies,*  
Wright State University,  
Spring 1988.
- Brown, Russel J. and Dobbs, Verlynda.  
*A Method of Translating Function Requirements for Object-Oriented Design,*  
Seventh Annual National Conference on Ada Technology Proceedings,  
Pages 589-599, 13-16 March 1989.
- Buhr, R. J. A.  
System Design with Ada,  
Prentice-Hall,  
1984.
- Bulman, Dave  
*Model-Based Object-Oriented Design for Ada,*  
Pragmatics, Inc.  
14 July 1987.
- Buzzard, Gregory D. and Mudge, Trevor N.  
*Object-Based Computing and the Ada Programming Language,*  
IEEE Computer,  
Pages 11-19, March 1985.
- Carpenter, Paul B.  
*Software Engineering Methods with ESML,*  
Methodologies and Tools for Real Time Systems Conference Proceedings,  
Pages C1-C29, 14-15 November 1988.
- Chambless, Linda C.  
*Comparison of Object-Oriented Requirements Analysis (OORA) Approaches,*  
MITRE,  
14 September 1989.
- Identification and Documentation of Objects using Different OORA Approaches,*  
MITRE,  
1 July 1989.
- Chen, Peter Pin-Shan.  
*The Entity-Relationship Model--Toward A Unified View of Data,*  
ACM Transactions on Database Systems, Volume 1, Number 1,  
Pages 9-36, March 1976.

Cherry, George W.

*Covering the Life Cycle with Ada: Ada All the Way,*  
Sixth Washington Ada Symposium (WADAS) Conference Proceedings,  
Pages 221-263, 26-29 June 1989.

PAMELA 2: An Ada-based Object-Oriented, 2167A-Compliant Design Method.  
Thought\*\*Tools, Inc., Canandaigua, New York, (716) 396-2233,  
October 1988.

Software Construction by Object-Oriented Pictures: Specifying Reactive  
and Interactive Systems,  
Thought\*\*Tools, Inc., Canandaigua, New York, (716) 396-2233,  
1990.

Software Contraction with Object-Oriented Pictures,  
Thought\*\*Tools, Inc., Reston, Virginia, (703) 437-4450,  
1989.

Clark, Robert G.

*Designing Concurrent Objects,*  
(First) International Workshop on Real-Time Ada Issues Proceedings,  
Ada Letters, Volume 7, Number 6,  
Pages 107-109, Fall 1987.

*Rapid Prototyping and Object-Oriented Development,*  
Dept. of Computing Science, University of Stirling, Scotland,  
1988 or 1989.

Coad, Peter

Comprehensive Guidelines for Object-Oriented Requirements Analysis.  
Project Concepts Training Materials,  
1988.

Object-Oriented Requirements Analysis.  
Project Concepts Training Materials,  
1989.

Coad, Peter and Yourdon, Ed

OORA - Object-Oriented Requirements Analysis.  
Prentice Hall,  
1988.

*Object-Oriented Requirements Analysis (OORA): A Practitioner's Crib Sheet,*  
AdaExpo'88 Conference Proceedings,  
Section 17, 9-12 October 1988.

- Cohen, A. T.  
*Data Abstraction, Data Encapsulation, and Object-Oriented Programming*,  
SIGPLAN Notices, Volume 19, Number 1,  
Pages 31-35, January 1984.
- Colbert, Edward  
*The Object-Oriented Software Development Method: A Practical Approach to  
Object-Oriented Development*,  
TRI-Ada'89 Conference Proceedings,  
Pages 400-415, 23-26 October 1989
- Collard, P.  
*Object-Oriented Programming Techniques with Ada: An Example*,  
Ada Letters, Volume 9, Number 6,  
Pages 119-126, September/October 1989.
- Cox, Brad J.  
Object-Oriented Programming,  
Addison-Wesley,  
1986.
- CRI-CISI\_INGINIERIE-MATRA  
HOOD (Hierarchical Object-Oriented Design Manual, Issue 2.0,  
CRI-CISI\_INGINIERIE-MATRA,  
20 June 1987.
- Davis, Niel W.; Irving, Malcolm; and Lee, John E.  
*Practical Experiences of Ada and Object-Oriented Design in Real-Time  
Distributed Systems*,  
Ada-Europe Conference Proceedings,  
Pages 3-15, 13-15 June 1989.
- de Nevers, Klancy  
*Mapping Object-Oriented Analysis into 2167A, Version 1.3*,  
Project Technology internal document,  
9 May 1989.
- Di Maio, Andrea; Cardigno, Cinzia; Bayan, Rami; Destombes, Catherine; and  
Atkinson, Colin  
*DRAGOON: An Ada-Based Object-Oriented Language for Concurrent, Real-  
Time, Distributed Systems*,  
Ada-Europe Conference Proceedings,  
Pages 39-48, 13-15 June 1989.
- Donaldson, Cammie M.  
*Dynamic Binding and Inheritance in and Object-Oriented Ada Design*,  
Ada-Europe Conference Proceedings,  
Pages 16-25, 13-15 June 1989.

European Space Agency  
The HOOD Manual, Version 2.2,  
ESTEC  
Postbus 299  
NL 2200 AK NORDWIJK  
The Netherlands

Felsingher, Richard C.  
*Integrating Object-Oriented Design, Structured Analysis/Structured Design, and Ada for Real-Time Systems,*  
Methodologies and Tools for Real Time Systems Conference Proceedings,  
Pages Q1-42, 2-3 March 1987.

Object-Oriented Design,  
RCF Associates Training Materials ,  
November-December 1988.

Forestier, J.P., Fornarino, C., and Franchi-Zannettacci, P.  
*Ada++: A Class and Inheritance Extension for Ada,*  
Ada-Europe Conference Proceedings.  
Pages 3-15, 13-15 June 1989.

*ADACOP: Programation Objet Conviviale pour Ada,*  
Conference francophone Ada Proceedings.  
1988.

Firesmith, Donald G.  
*An Evaluation of Ada Library Diagrams,*  
AdaEXPO Conference Proceedings,  
Pages (Missing), 10 October 1988.

*The Ada Development Method (ADM): An Object-Oriented Development Method for the Entire Development Cycle,*  
Summer 1989 SIGAda Conference Proceedings,  
1989.

*AFATDS: Productivity Improvements Using Ada and Object-Oriented Development,*  
Methodologies and Tools for Real Time Systems Conference Proceedings,  
Pages L1-L20, 14-15 November 1988.

*The Management Implications of the Recursive Nature of Object-Oriented Development,*  
1987 AdaEXPO/SIGAda Conference Proceedings.  
Pages TBD, 7-11 December 1987.

Object-Oriented Development in Ada,  
ASTS Training Materials,  
11 November 1989.



*Overloading the Term "Object" or Why Ada both is and is not an Object-Oriented Language,*  
Fifth Washington Ada Symposium (WADAS) Conference Proceedings,  
Pages missing, 27-30 June 1988.

Gray, Dr. Lewis

*Transitioning from Structured Analysis to Object-Oriented Design,*  
Fifth Washington Ada Symposium (WADAS) Conference Proceedings,  
Pages 151-162, 27-30 June 1988.

Heitz, M.

*Design and Development of Distributed Software using Hierarchical Object-Oriented Design and Ada,*  
1988 Ada Europe Conference Proceedings,  
1988.

Hood: Hierarchical Object-Oriented Design for Development of Large Technical and Real-Time Software.  
CISI INGENIERIE,  
1987.

Hull, M. Elizabeth C., Zarea-Allabadi, Adbid, and Guthrie, David, A.  
*Object Oriented Design, Jackson System Development (JSD) Specifications and Concurrency,*  
IEEE Software Engineering Journal,  
March 1989.

Jacobson, I.

*Object-Oriented Development in an Industrial Development,*  
OOPSLA'87 Conference Proceedings,  
Pages TBD, 4-8 October 1987.

Kerth, Norman L.

*MOOD - A Method for Structured Object-Oriented Design,*  
OOPSLA'88 Tutorial Materials,  
25 September 1988.

Khalsa, G. K.,

*Using Object Modeling to Transform Structured Analysis into Object Oriented Design,*  
Sixth Washington Ada Symposium (WADAS) Conference Proceedings,  
Pages 201-212, 26-29 June 1989.

Using Three System Perspectives to Transform Structured Analysis into Object-Oriented Design,  
Arizona State University, Tempe, Arizona,  
1988.

- Kovarik, Vincent J. and Nies, Steven  
*Supporting Object-Oriented Programming within Ada; Extending the Paradigm,*  
4th Annual Artificial Intelligence and Ada Conference Proceedings,  
Pages 13-1 through 13-6, 12 November 1986.
- Krogdahl, S and Olsen, K. A.  
*Ada, as seen from Simula,*  
Software - Practice and Experience, Volume 16, Number 8,  
Pages 687-700, August 1986.
- Ladden, R. M.  
*A Survey of Issues to be Considered in the Development of an Object-Oriented  
Development Methodology for Ada,*  
Ada Letters, Volume 9, Number 2,  
Pages 78-89, July 1988.
- A Survey of Issues to be Considered in the Development of an Object-Oriented  
Development Methodology for Ada,*  
Software Engineering Notes,  
Pages TBD, July 1988.
- Lee, Kenneth J; Rissman, Michael S.; D'Ippolito, Richard; Plinta, Charles; and Van  
Scoy, Roger  
*An OOD Paradigm for Flight Simulators, 2nd Edition,*  
Software Engineering Institute Technical Report CMU/SEI-88-TR-30,  
September 1988.
- Lee, Kenneth J. and Rissman, Michael S.  
*An Object-Oriented Solution Example: A flight Simulator Electrical System,*  
Software Engineering Institute Technical Report CMU/SEI-89-TR-5,  
February 1989.
- Lieberherr, K., Holland, I., & Riel, A.,  
*Object-Oriented Programming: An Objective Sense of Style.*
- Lorensen, William  
Object-Oriented Design,  
General Electric CRD Software Engineering Guidelines,  
1986.
- Masiero, Paulo C. and Germano, Fernad S.R.,  
*JSD as an Object-Oriented Design Method,*  
ACM SIGSOFT. Software Engineering Notes, Volume 13, Number 3,  
Pages 22-23, July 1988.

- Meyer, Bertrand  
*Genericity versus Inheritance*,  
OOPSLA'86 Conference Proceedings,  
Pages TBD, 1986.
- Reusability: the Case for Object-Oriented Design*,  
IEEE Software, Volume 4, Number 2,  
Pages 50 - 64, March 1987.
- Meyer, C., Wallis, M., and Meier, M.,  
*Experiences in Applying the Layered Virtual Machine/Object-Oriented  
Development Methodology to an Ada Design Effort*,  
TRI-Ada'89 Conference Proceedings,  
Pages 416-422, 23-26 October 1989.
- Mickel, Sue B.  
*Experience with an Object-Oriented Method of Software Design*,  
Third Joint Ada Europe/AdaTEC Conference Proceedings,  
Pages 271-280, 26-28 June 1984.
- Molko, P.M. and Ellison, K.S.  
*A Practical Real-Time Design Method for Ada*,  
Ada-Europe International Conference Proceedings,  
Pages 49-58, 13-15 June 1989.
- Nies, Steve  
*The Ada Object-Oriented Approach*,  
First International Conference on Ada Applications for the NASA Space  
Station Proceedings,  
Pages TBD, 1986.
- Parnas, D. L.  
*On the Criteria to be used in Docomposing Systems into Modules*,  
Communications of the ACM,  
Pages 1053-1058, December 1972.
- Perez, E. Perez  
*Simulating Inheritance with Ada*,  
Ada Letters, Volume 8, Number 5,  
Pages 37-46, September-October 1988.
- Rajlich, Vaclav  
*An overview of Refinement Methodology for Ada Software Design*,  
Department of Computer Science, Wayne State University,  
TBD.
- Paradigms for Design and Implementation in Ada*,  
Communications of the ACM, Volume 28, Number 7,  
Pages 718-727, July 1985.

*Refinement Methodology for Design with Packages*,  
Department of Computer Science, Wayne State University,  
TBD.

*Stepwise Refinement Revisited*,  
Journal of System Software, Volume 5, Number 1,  
Pages 80-88, March 1985.

Rajlich, Vaclav and Silva, Joao  
*Two Object Oriented Decomposition Methods*,  
Fifth Washington Ada Symposium (WADAS) Conference Proceedings,  
Pages 171-176, 27-30 June 1988.

Reed, Gregg P. and Bynum, Donald E.  
*Analyzing Systems for Object Oriented Design*,  
Sixth Washington Ada Symposium (WADAS) Conference Proceedings,  
Pages 195-200, 27-29 June 1989.

Rine, David C.  
*A Brief Comparison of Ada and Object-Oriented Design Elements for Ada*,  
2nd Annual Artificial Intelligence and Ada Conference Proceedings,  
Pages 10-1 through 10-10, 12 November 1986.

Scheidt, David; Preston, Dr. David; and Armstrong, Mary  
*Implementing Semantic Networks in Ada*,  
2nd Annual Artificial Intelligence and Ada Conference Proceedings,  
Pages 8-1 through 8-16, 12 November 1986.

Seidewitz, Ed  
*Object-Oriented Programming in Smalltalk and Ada*,  
OOPSLA'87 Conference Proceedings,  
Pages 202-213, 4-8 October 1987.

Seidewitz, Ed and Stark, Mike  
*An Introduction to General Object-Oriented Software Development*,  
Millennium Systems, Inc., Rockville, Maryland,  
1988.

General Object-Oriented Software Development, SEL-86-002  
NASA Goddard Space Flight Center, Software Engineering Laboratory,  
August 1986.

*General Object-Oriented Software Development with Ada: A Life Cycle Approach*,  
CASE Technology Conference Proceedings,  
Pages TBD, April 1988.

*Object-Oriented Programming in Smalltalk and Ada,*  
OOPSLA'87 Proceedings,  
Pages 202-213, 4-8 October 1987.

*Towards a General Object-Oriented Ada Life Cycle,*  
Joint Ada Conference: 5th Conference on Ada Technology Proceedings,  
Pages 213-222, March 1987.

*Towards a General Object-Oriented Software Development Methodology,*  
Ada Letters, Volume 7, Number 4,  
Pages 54-67, July/August 1987.

*Towards an Object-Oriented Software Development Methodology,*  
Tutorial: Object-Oriented Computing, Volume 2: Implementations,  
IEEE Computer Society Press,  
Pages 16-29, 1987.

*Towards an Object-Oriented Software Development Methodology,*  
1st Intl. Conf. on Ada Applications for the Space Station Proceedings,  
Pages D.4.6.1-14, June 1986.

Shaw, Mary

*Abstraction Techniques in Modern Programming Languages,*  
IEEE Software, Volume 1, Number 4,  
Pages 10-26, October 1984.

Shlaer, Sally and Mellor, Stephen J.

*An Object-Oriented Approach to Domain Analysis,*  
OOPSLA'89 Conference Proceedings,  
Pages TBD, TBD 1989.

Object-Oriented Systems Analysis. Modeling the World in Data,  
Yourdon Press, Englewood Cliffs, New Jersey,  
1988.

*The Object-Oriented Method for Analysis.*  
Tenth Structured Development Forum (SDF-X) Conference Proceedings,  
August 1988.

Understanding Object.-Oriented Analysis,  
Project Technology, Inc., Berkeley, California,  
1989.

Shumate, Ken C. and Nielson, K.

Designing Large Real-Time Systems in Ada.  
McGraw-Hill, New York, New York,  
1988.

*Layered Virtual Machine/Object-Oriented Design,*  
Fifth Washington Ada Symposium (WADAS) Conference Proceedings,  
Pages 177-190, 27-30 June 1988.

Simonian, R. and Crone, M.  
*InnovAda: True Object-Oriented Programming in Ada,*  
Journal of Object-Oriented Programming, Volume 1, Number 4,  
Pages TBD, November-December 1988.

Simonson, Jeff  
*An Ada Interface to a Functionally Designed Library,*  
Ada Rendezvous, Volume VI,  
Pages 7-10, December 1989.

Smith, Mark K. and Tockey, Stephen R.  
*An Integrated Approach to Software Requirements Definition Using Objects,*  
AdaExpo'88 Conference Proceedings,  
Section 6, 9-12 October 1988.

Sincovec, Richard F. and Wiener, Richard S.  
*Modular Software Construction and Object-Oriented Design using Ada,*  
Journal of Pascal, Ada, and Modula-2,  
Pages 29-48, March/April 1984.

Stoecklin, Sara F.  
An Object Oriented Methodology for the Development of Software Systems,  
East Tennessee State University,  
July 1987.

Stoecklin, Sara F., Adams, Evans J., and Smith, Suzanne  
*Object-Oriented Analysis,*  
Fifth Washington Ada Symposium (WADAS) Conference Proceedings,  
Pages 133-138, 27-30 June 1989.

Stoustrup, Bjarne  
*What is Object-Oriented Programming,*  
IEEE Software,  
Pages 10-20, May 1988.

Tempte, Mark  
*Object-Oriented Design and Ballistics Software,*  
Ada Letters, Volume 4, Number 3,  
Pages 25-36, November-December 1984.

Touati, H.  
*Is Ada an Object-Oriented Programming Language,*  
SIGPlan Notices, Volume 22,  
Pages TBD, May 1987.

- Valley, Lois  
*Classic-Ada,*  
Software Reuse Issues Workshop Proceedings,  
NASA Conference Publication 3057,  
Pages 41-48, 17-18 November 1988.
- Vidale, Dr. Richard F. and Roberts Hayden, Charlene  
*A Student Project to Extend Object-Oriented Design*  
Second ASEET Symposium Proceedings,  
Pages TBD, 1987.
- Extending Object-Oriented Ada Design Methodology,*  
GET Government Systems Corp.  
1986
- Vielcanet, P.  
*Hood Design Method and Control/Command Techniques for the Development of Realtime Software,*  
Sixth Washington Ada Symposium (WADAS) Conference Proceedings,  
Pages 213-219, 26-29 June 1989.
- Vines, Peggy and King, T.  
*Object-Oriented Programming and Persistency in Ada,*  
Honeywell, Systems and Research Center,  
1988-1989?
- Ward, Paul T.  
*How to Integrate Object Orientation with Structured Analysis and Design,*  
IEEE Transactions on Software Engineering, Volume 6, Number 2  
Pages 74-82, March 1989.
- Wasserman, Anthony I.; Pircher, Peter A.; and Muller, Robert J.  
*The Object-Oriented Structured Design Notation for Software Design Representation,*  
IEEE Computer, Volume 23, Number 3 (Probably)  
Pages TBD, March 1990.
- Wegner, P.  
*On the Unification of Data and Program Abstraction in Ada,*  
10th Annual Symposium of Programming Languages Proceedings,  
1983.
- Whitcomb, Mark J. and Clark, Boyd N.  
*Pragmatic Definition of an Object-Oriented Development Process for Ada,*  
TRI-Ada'89 Conference Proceedings,  
Pages 380-399, 23-26 October 1989.

## SI/Ada INSTITUTIONAL SPONSORS (cont.)

- SYSTEAM AG, Am Rieppinger Schloß 7, D-7500 Karlsruhe 51, West Germany.
- TAI Corporation, MS 100/102, P.O. Box 136, Hunt Valley, MD 21030-0136
- Systems and Applied Sciences Corporation, 1020 Woodland Dr., Suite 200, Dayton, OH 45424
- Advanced Computer Technology, 46 East 33rd St., New York, NY 10016
- Network Solutions, 8129 Picnic Blvd., Niagara, NY 14180
- COPTEL Corporation, Applied Systems Div., 1300 Quincy Orchard Blvd., Gaithersburg, MD 20878
- Systems Research and Applications Corporation (SRAC), 3000 15th Street (South), Arlington, VA 22201
- Tmadsu Computers, 1991 Valero Parkway, Capertino, CA 95014-7599
- Rogers State College, Will Rogers Hall College Bldg., Channing, OK 74017-2099
- Cattle Electronics Incorporated, P.O. Box 137, Weyland, MA 01778
- R. K. Software Incorporated, P.O. Box 1742, Madison, WI 53701
- DEC/CMPTECH, Incorporated, CAI Division, 550 West Northwest Highway, Barrington, IL 60010, 312-384-2400
- Sun Microsystems Incorporated, 2575 Garcia Avenue, MS-A1-30, Mountain View, CA 94043
- Index Technology Corporation, Research & Technology Dept., One Main Street, Cambridge, MA 02141
- Allied-Signal Aerospace Company, Computer Aided Engineering Center (3425), Teterboro, NJ 07608
- Advanced Digital Systems, Inc., 10050 Mira Mesa Blvd., San Diego, CA 92121
- PDI Corporation, 1200 Somerville Road, Annapolis, MD 21401, 301-274-2130
- Turbin Laboratories, 300 Oxford Drive, Monroeville, PA 15146
- Digital Equipment Corporation, Commercial Blvd., MK02-B03, Merrimack, NH 03044
- Texel and Company, Victoria Plaza Bldg. 4, Suite 2, 615 Hope Rd., Princeton, NJ 08541
- Science Applications International Corp. (SAIC), Comsyscon Div., 10770 Whiteidge Circle, San Diego, CA 92121
- Strussle Systementwicklung GmbH & Co. KG, Beckershof 5, D-61113, Lorch, West Germany
- Amphibia Research Corporation, 331 Wisconsin Avenue, 650-13, Hanesdale, NJ 07034
- UC Systems, Incorporated, 4205 Fulton Court, Alexandria, VA 22311
- LCI Research Institute, 4600 Forbes Blvd., Landrum, MD 20705
- Context Computer Corporation, 3000 Winderview Parkway, Richardson, TX 75081-3151
- CMC Group de México S. de C.V., C/ Ciudad Jardín 37, P. 26003-Matamoros
- Atlantic Software Company, Inc., 4593 Orchard Drive, Costa Mesa, CA 92623-3320
- Software Productivity Corporation, 3214 Rock Hill Road, Herndon, VA 22070
- Gray Research, Inc., 1200 Northchase East, 608 Second Avenue South, Minneapolis, MN 55403

Is your organization recognized as an Ada supporter? Become a SI/Ada INSTITUTIONAL SPONSOR! Benefits include having your organization's name and address listed in every issue of Ada Letters, two subscriptions to Ada Letters, and member conference rates for all of your employees attending SI/Ada events. To sign up, contact Diane Darrow, ACM Headquarters, 11 West 42nd Street, New York, NY 10036, 212-869-7440. E-mail Darrow @ ACMVM.Blnet

Interested in reaching the Ada market? Call David Charnin at ACM Headquarters (212-869-7440) for information on SI/Ada membership mailing lists and labels.



## Table of Contents

### Newsletter Info

Editorial Policy .....	1
Key Contacts .....	2
SIGAda Extended Executive Committee .....	3
SIGAda Working Groups .....	4
Letter from the Vice Chair for Liaison .....	5
Local SIGAdas .....	6
Ada Around the World .....	15

### Special Announcements

Letters to the Editor .....	16
Short Notices and Transitions .....	18
PCTS Announcement .....	19
ALS/N Instructions .....	21

### Meetings

Rendezvous Summary - Kathy Gilroy .....	23
ACM SIGAda Summer '90 SIGAda "Spotlighting SIGAda's Working Groups" .....	26
Ada Europe - Athens - 1991 .....	36

Dear Ada - Doug Bryan .....	37
-----------------------------	----

### Articles

Implementation of 8-Bit Coded Character Sets in Ada - A. Strohmaier, C. Genillard, and M. Weber .....	47
Effective Use of Abort in Programming Mode Changes - A. Burns and T. Quiggle .....	61
A Detailed View of DARK - R. Van Scoy, J. Bamberger, and P. Firth .....	68
An Example of Event Driven Asynchronous Scheduling with Ada - J. Chelini, D. Hughes, E. Hoffman, and D. Grunelle .....	84
Object Oriented Requirements Analysis in an Ada Project - M. Freitas, A. Moreira, and P. Guerrero .....	97
A Scheme for the Translation of the Tucker Palf Select And Statement into Standard ANSI Ada - R. Therault .....	110
GOD and Ada Bibliography - D. Fursmith .....	114

### Postmaster:

Send change of address to Ada\_letters, ACM, 11 West 42nd Street, New York, NY 10036