

CODATA 1966-2006

People and Publications

20th International CODATA Conference 22-25 October 2006, Beijing, China

Session A1 – CODATA: 40 Years of Bringing Data to the World

Gordon H. Wood, Chair

Presidents

- Frederick Rossini, USA, 1966-1970
- Boris Vodar, France, 1970-1974
- Paul Melchior, Belgium, 1974-1978
- Masao Kotani, Japan, 1978-1982
- William Hutchison, Canada, 1982-1986
- David Lide, USA, 1986-1990
- David Abir, Israel, 1990-1994
- Jacques-Émile Dubois, France, 1994-1998
- John Rumble, USA, 1998-2002
- Shuichi Iwata, Japan, 2002-2006

Secretary-Treasurers

• Wilhelm Klemm, Germany, 1966-1972

Karl Egle, Germany, 1972-1973

Secretaries General

- Edgar Westrum, USA, 1973-1982
- David Lide, USA, 1982-1986
- Alain Bussard, France, 1986-1990
- Gordon Wood, Canada, 1990-1998
- Paul Mezey, Canada, 1998-2004
- Robert Chen, USA, 2004-

Treasurers

- Nicholas Kurti, UK, 1973-1980
- David Watson, UK, 1980-1988
- James Crease, UK, 1988-1996
- Michael Chinnery, USA, 1996-2000
- Jean-Jacques Royer, France, 2000-

Executive Directors

- Christoph Schaeffer, 1968-1973
- Bertrand Dreyfus, 1973-1979
- Phyllis Glaeser, 1979-1999
- Kathleen Cass, 1999-

Newsletters

CODATA

NEWSLETTER

DECEMBER 1973

IVTH INTERNATIONAL CODATA CONFERENCE

TSAKHCADZOR OLYMPIC VILLAGE

(ca. 50 km from Yerevan, Armenian Republic, U.S.S.R.) 24 - 27 June, 1974

The 4th International CODATA Conference will be held near Yerevan, U.S.S.R. from Monday, 24th June through Thursday, 7th June, 1974. The Soviet Organizing Committee together with the Program Committee have provided a stimulating and challenging formulation in a pleasant setting. The Conference will provide opportunities for the interchange of information and ideas on CODATA concerns, and for the establishment of closer scientific contacts among scientists from different countries, throughout the broad scope of disciplines embraced within CODATA.

A final program will be available in March 1974. Aspects covered will include the modus operandi of both disciplineand mission oriented data centers, their interaction and cooperation with data centers, their interaction and co-operation with data producers and users; computer usage in data systems organization; CODATA's role in meeting data needs for the geo-, cosmic- and bio-sciences; progress in data handling for atomic, molecular, spectroscopic and thermophysical data, etc. together with a few additional relevant. terse communications included within the structure of the program. Opportunities for discussion will be provided both in the main sessions and in the special informal sessions. Whereas languages recognized by ICSU will be acceptable, the use of English is recommended both for oral presentations and for written texts submitted for publication in the Proceedings of the Conference.

The meeting will take place in the High-Altitude Olympic Training Camp "Tsakhcadzor" which has excellent housing, discussion and Conference accommodation as well as sport (e.g. tennis and swimming) facilities. The Camp is located near Yerevan, the capital of the Armenian Republic, a city old as Babylon and Ninevah and situated on the Plains of Ararat (an "open-air" museum of ancient culture). Excursions to Yerevan and to the austere and majestic beauty of Lake Sevan situated at nearly 2000 meters elevation will be arranged during the week of the Conference.

NEW CODATA OFFICERS

The newly elected officers and the seven additional elected members chosen from among the delegates comprise the Executive Committee of CODATA as defined by the revised constitution. The elections took place during the CODATA General Assembly held at Stockholm, Sweden in September 1973.

Presiden

Prof. B. VODAR, Laboratoire des Interactions Moléculaires et des Hautes Pressions, 1, place Aristide-Briand, 92190 Meudon, France.

Secretary General:

Prof. E. WESTRUM, Jr., University of Michigan, Dept. of Chemistry, Ann Arbor, Michigan 48104, U.S.A.

Treasurer

Prof. N. KURTI, F.R.S., the Clarendon Laboratory, Parks Road, Oxford OX1 3PU, U.K.

Vice-President:

Dr. R.N. JONES, Division of Pure Chemistry, National Research Council of Canada, 100 Sussex Drive, Ottawa 2, Ontario, Canada.

Vice-Presider

Academician M.A. STYRIKOVICH, Academy of Sciences of the U.S.S.R., Leninskiy Prospekt 14, Moscow B - 71, U.S.S.R.

Member:

Dr. P.L. ALTMAN, Office of Biological Handbooks, F.A.S.E.B., 9650 Rockville Pike, Bethesda, Maryland 20014, U.S.A.

Prof. K. EGLE, Botanisches Institut der J. W. Goethe Universität, 6, Frankfurt/Main, Siesmayerstr. 70, Federal Republic of Germany.

Dr. W.W. HUTCHISON, Geological Survey of Canada, 100 West Pender Street, Vancouver 3, B.C., Canada.

Prof. H. JANCKE, Amt für Messwesen und Warenprüfung der DDR, 102 Berlin, Wallstrasse 16, D.D.R.

Prof. P. MELCHIOR, Observatoire Royal de Belgique, avenue Circulaire 3, 1180 Brussels, Belgium.

Prof. T. PLEBANSKI, Division of Physico-Chemical Metrology, National Board for Quality Control and Measures, Elektoralna 2, Warsaw I, Poland.

Prof. T. SHIMANOUCHI, Director of Computer Centre, University of Tokyo, 2-11-16, Yayoi, Bunkyo-ku, Tokyo, Japan.

COMMITTEE ON DATA FOR SCIENCE AND TECHNOLOGY



CODATA Elections Elections à CODATA SEPTEMBER 1974

TABLE OF CONTENTS TABLE DES MATIERES

Fourth International CODATA Conference IVè Conférence internationale CODATA	2
Chemical Thermodynamics of the Actinides Thermodynamique chimique des actinides	2
1974 IAPS Conference Conférence 1974 de l'IAPS	3
Indian National Committee for CODATA Comité national indian pour CODATA	3
Programme - 4th International CODATA Conference Programme de la IVè Conférence internationale CODATA	4
The Importance of Accelerating Thermodynamic Compilation Endeavors Importance actuelle d'une intensification des efforts	
de compilation des grandeurs thermodynamiques	6
The Fundamental Constants, 1974 vs 1973 Evolution des constantes fondamentales de 1973 à 1974	10
New publications Publications récentes	15
CODATA Members 1974 Composition de CODATA en 1974	18

The Committee on Data for Science and Technology (CODATA) was established in 1966 by the International Council of Scientific Unions.

Working on an international, interdisciplinary basis, CODATA seeks to improve the quality, reliability and accessibility of data of importance to science and technology.

COMMITTEE ON DATA FOR SCIENCE AND TECHNOLOGY



MAY 1980

TABLE OF CONTENTS

Table des Matières

In Memorian - Stephen A. Rossmassler
In Memoriam - Arnold A. Bondi
In Memorian - Bertrand Dreyfus
Tentative Scientific Program - 7th International CODATA Conference Programme scientifique provisoire - 7ème Conférence Internationale CODATA
CODATA Task Group on Chemical Kinetics Groupe de Travail CODATA en Cinétique Chimique
CODATA/UNESCO/CNRS Training Courses on Geoscience Data CODATA/UNESCO/CNRS - Stage sur les données en Sciences de la Terre .1
Data Processing in Chemistry Traitement des données en chimie
Training Course on Data Dissemination Stage sur la Dissemination des données
Bridgman Award Prix Bridgman
IUPAC Commission for Electrochemistry Commission UICPA d'Electrochimie
CODATA National Committees Comitée nationaux CODATA
New Publications Neuvelles publications
ARIST 1980 - Call for Papers ARIST 1980 - Appel aux contributions
Joint French-Israeli Interdisciplinary Symposium Symposium interdisciplinaire commun franco-israelien
France to Launch Pilot Projects for Data Banks La France lance des projets-pilotes de banques de données
Data Centers Established to Aid Coal Conversion Industry Etablissement de centres de données pour aider les industries de transformation du charbon

The Committee on Data for Science and Technology (CODATA) was established in 1966 by the International Council of Scientific Unions.

Working on an international, interdisciplinary basis, CDDATA seeks to improve the quality, reliability and accessibility of data of importance to science and tachnology. INTERNATIONAL COUNCIL FOR SCIENCE (ICSU)



Committee on Data for Science and Technology

JULY 1998 HIGHLIGHTS

Books/Databases 7, (4)
CODATA Calendar 4
CODATA Int'l. Conference 1, (2, 8)
CODATA/Web 2
Database Management 3
Data Sources (DSAO) 2
Globalization of Materials Data 5
Information Visualization Wkshp. 8
USNC-CODATA 5,(6)
USNC Data Exchange 3



The Committee on Data for Science and Technology (CODATA) was established in 1966 by the International Council of Scientific Unions.

Working on an interdisciplinary basis, CODATA seeks to improve the quality, reliability, processing, management, and accessibility of data of importance to science and technology.

International CODATA Conference New Delhi, India November 1998

ICSU-CODATA (Committee on Data for Science and Technology) will hold its 16th International Conference and General Assembly at New Delhi, India in November 1998. These conferences provide a forum for interaction and information transfer between multi-disciplinary, leading scientists and engineers engaged in data generation, evaluation, dissemination, and applications. The fast changing scenario in information generation and management technology, particularly in networking at national and global levels, necessitates frequent reviews of the state of the art and discussion on trends and important aspects of the field. This modern technology has a vital role to play in sustainable development of society.

Bearing the title "Scientific and Technical Data and Communication for the Sustainable Development of Nations" and the slogan "Data Management in the Evolving Information Society," this 16th International CODATA Conference will be hosted by the Indian National Organizing and the Local Organizing Committees.

Leading scientists will make presentations reviewing the state of the art and their vision for the future, and active resarchers will have opportunities to share their research results. The scientific program has been arranged to feature some 49 lectures (13 Indian, 8 other Asian, 2 Russian, 10 North American, and four others), over the four days of the Conference. Though the number is smaller, it consequently offers a trade off, by elimination of parallel sessions, compared to previous CODATA Biennial International Conferences. However some 43 contributed papers have been accepted as posters in three poster sessions.

Short oral sessions by selected young scientists, poster sessions for contributed papers, and exhibits round out the program. The global representation and breadth of scientific scope (where known) seems broader than that of the "invited" lectures.

Ten selected young Indian and foreign scientists (35 years) will be chosen to make short oral presentations. Financial assistance will also be provided to neighboring developing countries for making exhibits of products and literature.

(continued on page 2)

Orc

codat

CODATA Newsletter 80

Committee on Data for Science and Technology



January 2000

1(3) Into the next century. Wither CODATA

- 2 COADATA 2000
- 4 Call for Papers
- 5 CODATA says many many thanks
- 6 CODATA reviews Task Group and Commission Activities
- 7 CODATA meetings

The Committee on Data for Science and Technology (CODATA) was established in 1966 by the International Council for Science (ICSU). Working on an interdisciplinary basis, CODATA seeks to improve the quality, reliability, processing, management and accessibility of data of importance to science and technology

Into the Next Century – Whither CODATA?

It is exciting times for those of us involved with scientific and technical data. The Information Revolution is a reality. The importance of good data work continues to grow as modelling, simulation and large-scale observation programmes expand. New software tools provide us with amazing capabilities, such as the Internet and World Wide Web, database management, and visualisation. As President of CODATA, I am enthusiastic about working with data experts from around the world to ensure CODATA remains the world's leading data organisation.

What does that mean? How can CODATA make the maximum possible impact in the next century? Whither CODATA? Let me set a few goals for CODATA over the next three years.

- · Meeting the Internet challenge
- Making data science widely available
- Enlarging the CODATA community
- · Improving data quality

In this column, I can only briefly outline the challenges these goals provide. Check out the CODATA web site (www.codata.org) for a longer article that gives more details.

Internet Challenges

Every data activity is now immersed in the Internet and the World Wide Web. Specific issues that CODATA should address include intellectual property rights and other data access issues, data archiving, and interoperability and format standards. If you are interested in these and want to help work on them, let me know at john.rumble@nist.gov

Spreading Data Science

Today, most scientists and engineers recognise the importance of data in all disciplines. While data management tools have never been more available or easier continued on page 3

CODATA

Newsletter 84

Committee on Data for Science and Technology

Open Access and the Public Domain in Digital Data and Information for Science

CODATA, in collaboration with UNESCO, the International Council for Science (ICSU), the US National Academies and the International Council for Scientific and Technical Information (ICSTI) organized an "International Symposium on Open Access and the Public Domain in Digital Data and Information for Science." It was held at UNESCO Headquarters on 10-11 March 2003.

April 2003 Highlights

- Open Access and the Public Domain in Digital Data and Information for Science
- 2 Interview with the new CODATA President, Prof. Shuichi Iwata
- 3 18th International CODATA Conference
- 3-4 Task Groups Approved at the 23rd CODATA General Assembly
- 4 In Remembrance... Professor Charles Benjamin Alcock

http://www.codata.org

The Committee on Data for Science and Technology (CODATA) was established in 1966 by the International Council for Science (ICSU). Working on an interdisciplinary basis. CODATA seeks to improve the quality, reliability, management and accessibility of data of importance in all fields of science and technology.

At the opening ceremony, the Director-General of UNESCO, Mr. Kolchiro Matsuura, outlined UNESCO policy and priorities regarding access to information in the digital era, "The new economic and technological environment is raising concerns about the erosion of access to certain information and knowledge whose free sharing



to scientific and technological information and learning opportunities," and he called for international frameworks to help Member States formulate national policies that facilitate access for all to essential information.

facilitated scientific research and education in past decades", stated Mr. Matsuura. He went on to say that "most developing

countries have so far been

unable to take full advantage of

the advances offered by new information and communication technologies in terms of access

Mr. Kolchiro Matsuura

The symposium brought together some 140 leading experts and managers involved in the creation, dissemination, and use of data and information in public research. The participants came from government and academic sectors and from both developed and developing countries. They sought to describe the role, value, and limits of public domain and open access to digital data and information in the context of international research. Legal, economic, and technological pressures involved were reviewed as well the ways to presenve and promote public domain and open access to science and technology data and information on a global basis, with particular attention to the needs of developing countries.

The proceedings will be published in a few months. A web cast of the meeting can be accessed through the CODATA website http://www.codata.org.

CODATA would like to take this opportunity to sincerely thank ICSU, UNESCO, the US National Academies, the John D. and Catherine T. MacArthur Foundation and the US National Weather Station for the funding contributions it directly or indirectly received in support of this meeting. •

International Council for Science (ICSU)

CODATA

Newsletter 91

Committee on Data for Science and Technology

The Information Commons for e-Science

Creating the Information Commons for e-Science:
Toward Institutional Policies and Guidelines for Action

by Paul A. David and Paul F. Uhlir

CODATA, along with several other partner organizations, has organized an international workshop at the UNESCO Headquarters in Paris, France on 1-2 September 2005, the purpose of which is to highlight and analyze the variety of experiments that have already been undertaken to enhance the effectiveness of scientific activity in the current transition phase from the print to digital communications media.

July 2005 Highlights

- 1,2,3 The Information Commons for e-Science – Creating the Information Commons for e-Science: Toward Institutional Policies and Guidelines for Action
- 4 In Memoriam: Jacques Emile Dubois, 1920-2005
- 5 Call for Proposals to Oversee and Manage the CODATA Data Science Journal
- 6 CODATA Sponsors a Scientific Markup Languages Workshop
- **6** Upcoming Events

http://www.codata.org

The Committee on Data for Science and Technology (CODATA) was established in 1966 by the International Council for Science (ICSU). Working on an inter-disciplinary basis, CODATA seeks to improve the quality reliability management and accessibility of data of importance in all fields of science and technology.

The international scope of digital networks and research collaborations make it both necessary and desirable to seek institutional policies and guidelines for action that will contribute to creating the "information commons" for global e-Science. The workshop aims to promote greater understanding of the variety of successful mechanisms that enhance the availability of public information resources for modern scientific research collaborations. It also seeks to facilitate the development of coordinated principles and guidelines for the rational management of publicly-funded data and information in today's rapidly progressing digitally networked research environments.

The Information Commons workshop will build on the body of practical experience and the empirical studies carried out by the participating organizations and other research and information policy institutions. Moreover, collaboration in this initiative by the major international science policy and

scientific information policy organizations-CODATA, ICSTI, INASP, ICSU, UNESCO, TWAS, the OECD and the U.S. National Academies – has provided an unprecedented opportunity to work towards the formulation of a common, international set of principles and guidelines for public access to scientific data and information.

From a scientific perspective, access to data and information has never been as important as it is now. The rapid advances in digital technologies and networks over the past two decades have significantly altered and improved the ways that data and information can be produced, disseminated, managed, and used, both in science and in many other spheres of human endeavor.

(continued on page 2)



Paul F. Uhlir



Bulletins



CODATA



BULLETIN

OCTOBER 1969

AUTOMATED INFORMATION HANDLING IN DATA CENTERS

Report of the ICSU-CODATA Task Group on Computer Use, June 1969

INTRODUCTION

1. UNITED STATES

- 1.0 GENERAL
- 1.1 NUCLEAR DATA CENTERS
- 1.2 DATA CENTERS FOR THERMODYNAMICS, TRANS-PORT PROPERTIES AND CHEMICAL KINETICS
- 1.3 SOLID-STATE DATA CENTERS
- 1.4 DATA CENTERS FOR ATOMIC AND MOLECULAR PROPERTIES
- 1.5 INFORMATION SYSTEMS

2. UNITED KINGDOM

- 2.0 GENERAL
- 2.1 DATA CENTERS
- 2.2 INFORMATION SYSTEMS

3. FRANCE

4. GERMANY

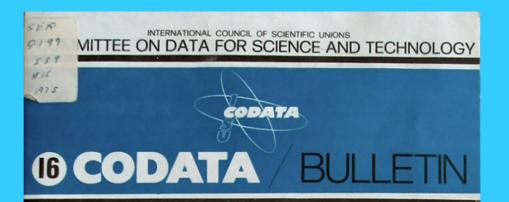
5. JAPAN

- 5.1 DATA CENTERS
- 5.2 INFORMATION SYSTEMS

6. CANADA

- 6.1 DATA CENTERS
- 6.2 INFORMATION SYSTEMS





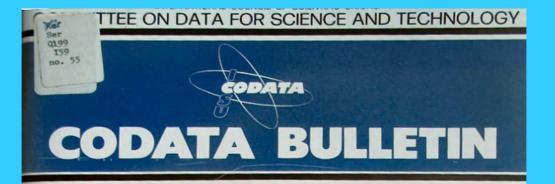
CANADA INSTITUTE OCTOBER 1975

JAN 0 5 1976 OTTAWA INSTITUT CANADIEN DE L'I.S.T.

Study on the problems
of accessibility and
dissemination of data
for science and technology

Report of the CODATA Task Group on Accessibility and Dissemination of Data

PREPARED FOR UNESCO-UNISIST



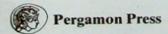
ANALYZ

CODATA DIRECTORY OF DATA SOURCES FOR SCIENCE & TECHNOLOGY

EDGAR F. WESTRUM, JR., EDITOR

CHAPTER 11
CHEMICAL THERMODYNAMICS
ROBERT D. FREEMAN, CHAPTER EDITOR







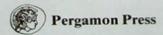
ANALYZED

PROPERTY MEASUREMENT METHODS AND STANDARD REFERENCE MATERIALS

MERRILL L. MINGES



A Report of the CODATA Task Group on Thermophysical Properties of Solids



Number 60, February 1986

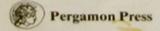




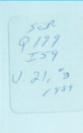
SCIENTIFIC PROGRAM AND ABSTRACTS

TENTH INTERNATIONAL CODATA CONFERENCE

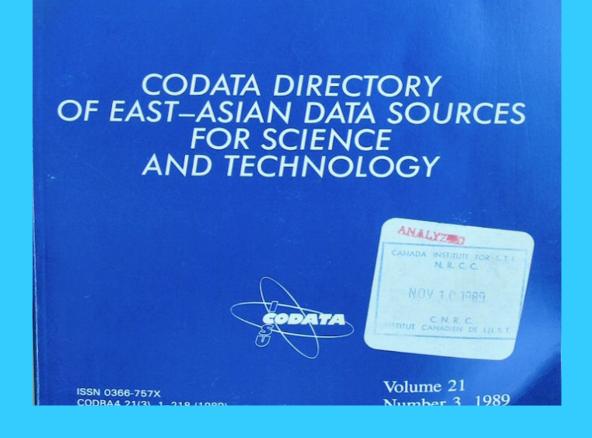
14-17 July 1986, Ottawa, Canada



Number 61 May 1986



CODATA BULLETIN



1992

0199 159 24:4 December

CISTI/ICIST NRC/CNRC Main Ser Received on: 06-09-93 October - CODATA bulletin



BULLETIN

DATA FOR GLOBAL CHANGE



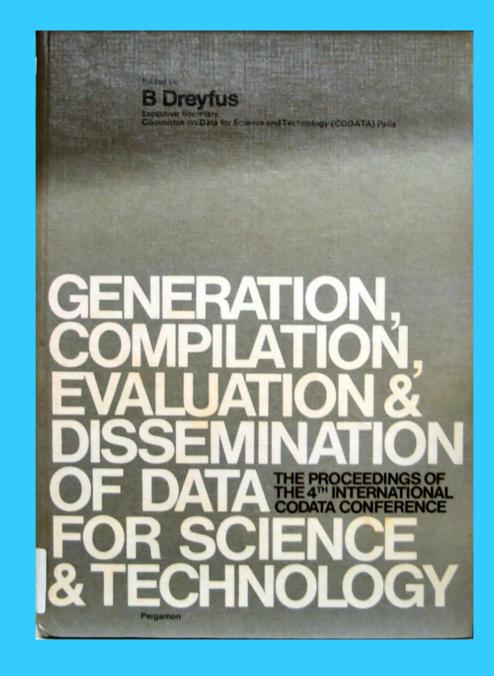
CODBA4 24(4), 1-123 (1992)

Volume 24 Number 4 October-December 1992

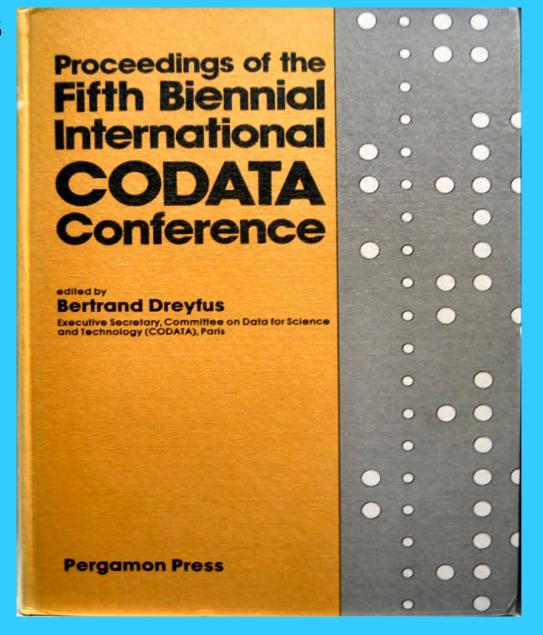
Conference

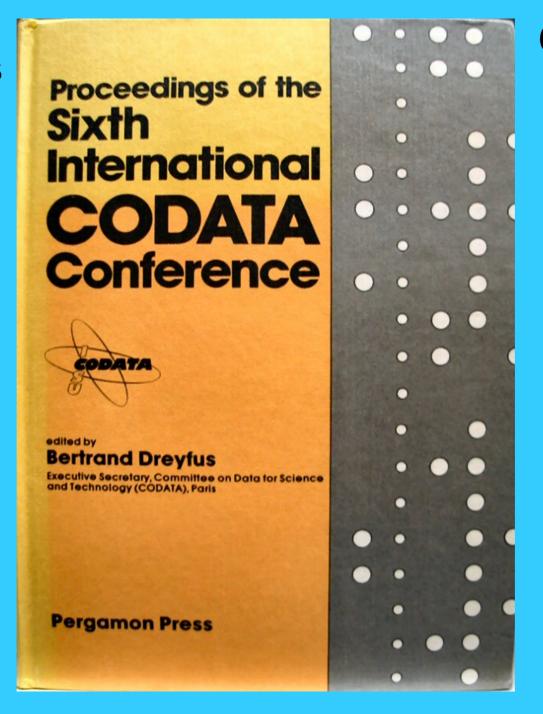
Proceedings

4th (1974)

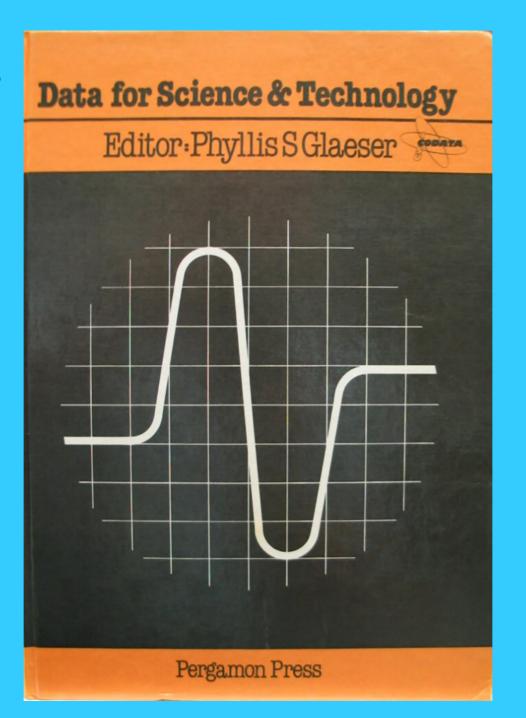


5th (1976)

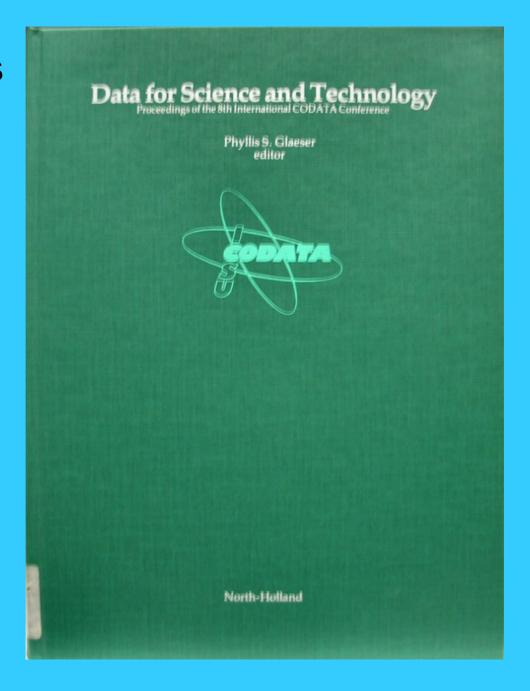




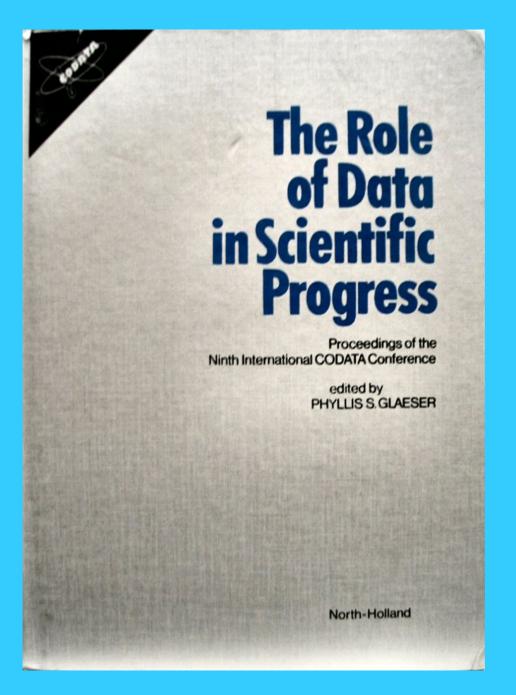
6th (1978)



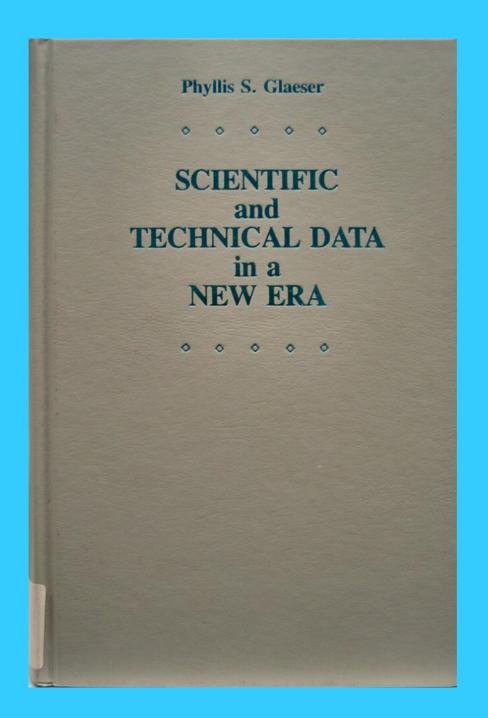
7th (1980)



8th (1982)



9th (1984)



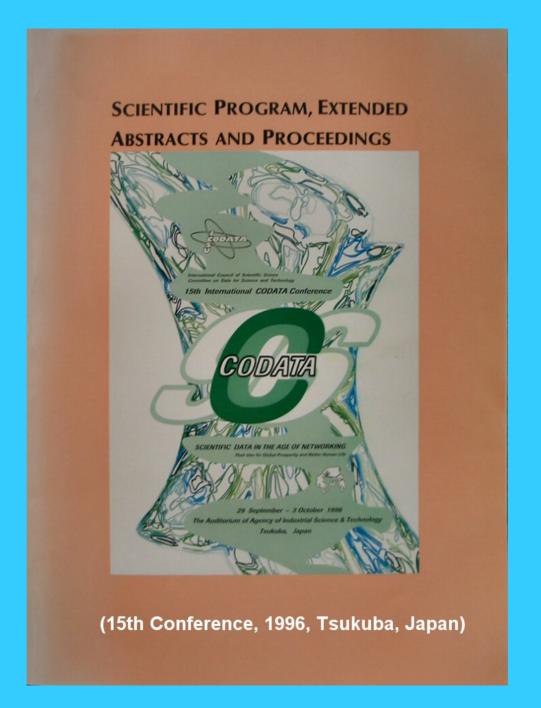
11th (1988)

Proceedings of the Twelfth International CODATA Conference Data for Discovery PHYLLIS S. GLAESER **EDITOR** begell house Copyrighted material

12th (1990)

Conference

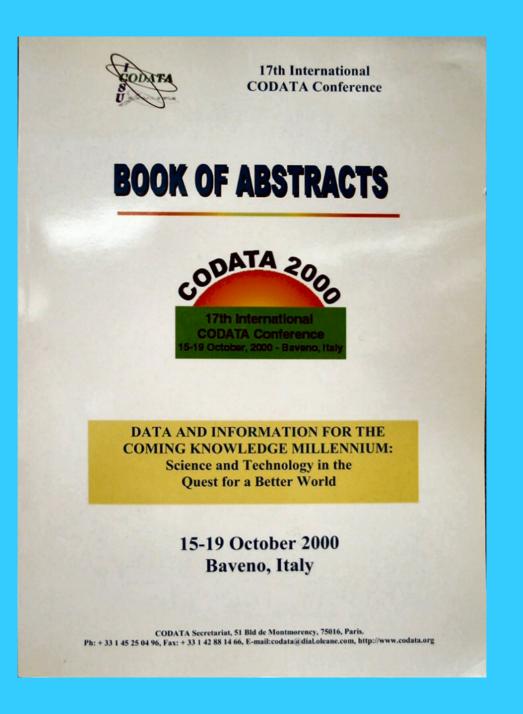
Abstracts



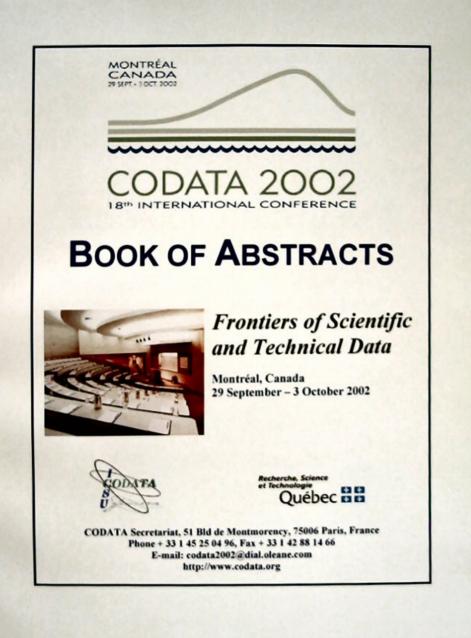
15th (1996)

SCIENTIFIC PROGRAM AND ABSTRACTS CODETY 16th INTERNATIONAL CODATA CONFERENCE SCIENTIFIC & TECHNICAL DATA AND COMMUNICATION FOR THE SUSTAINABLE DEVELOPMENT OF NATIONS DATA MANAGEMENT IN THE EVOLVING INFORMATION SOCIETY 8 - 12 NOVEMBER 1998 HABITAT WORLD, INDIA HABITAT CENTRE, LODHI ROAD, NEW DELHI - 110 003.

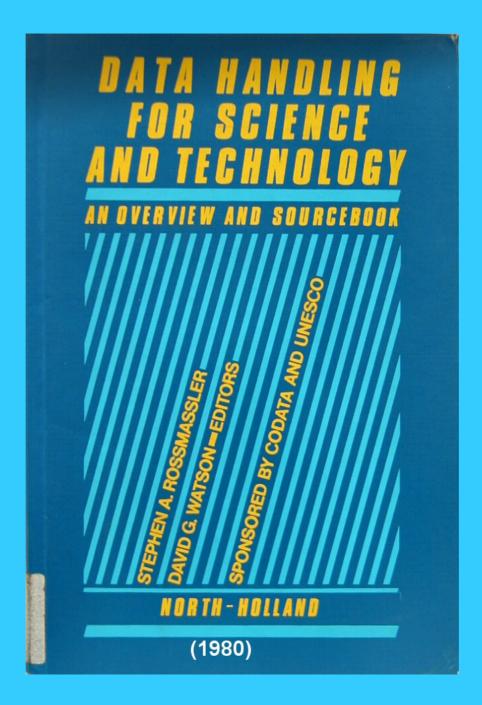
16th (1998)

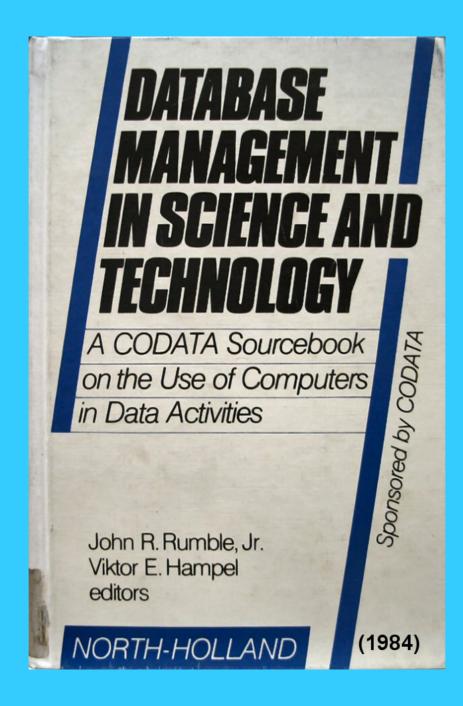


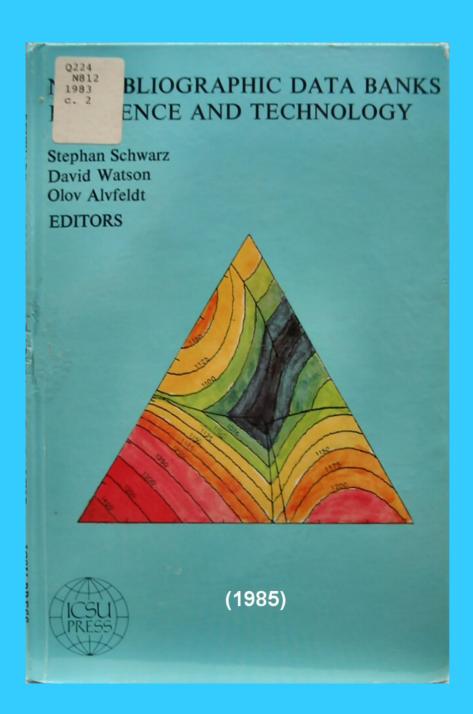
17th (2000)

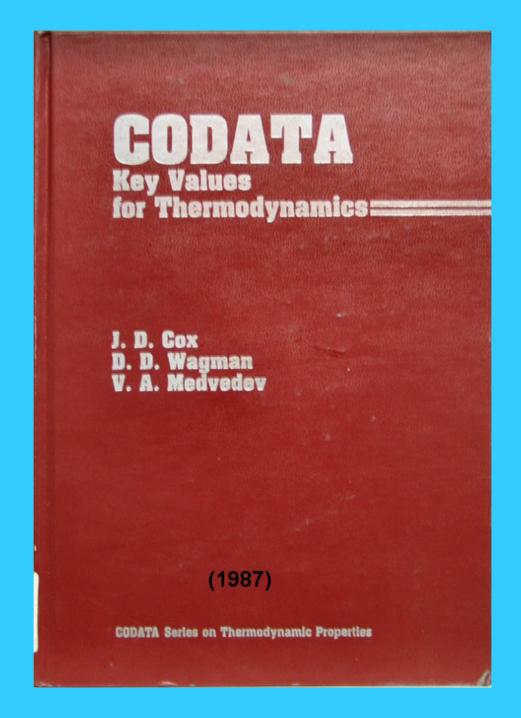


18th (2002)









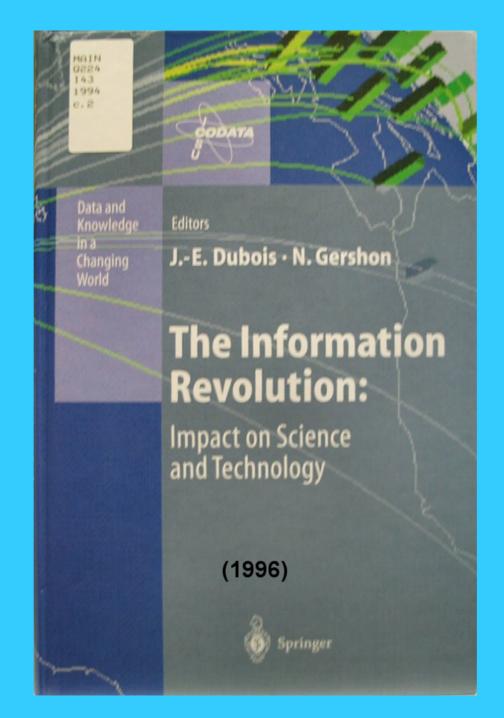
CODATA Thermodynamic Tables SELECTIONS FOR SOME COMPOUNDS OF CALCIUM AND RELATED MIXTURE A PROTOTYPE SET OF TABLES

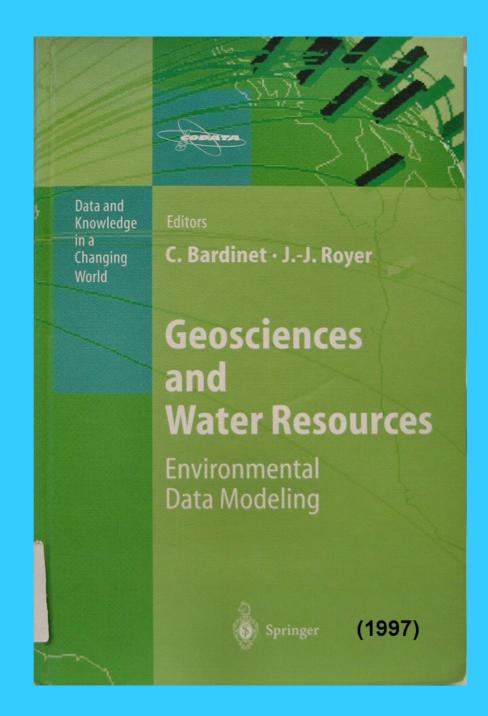
D. Garvin V. B. Parker H. J. White, Jr.

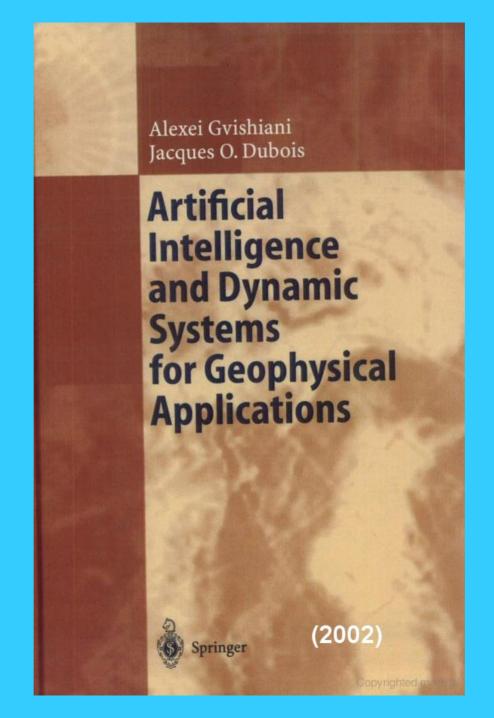
(1987)

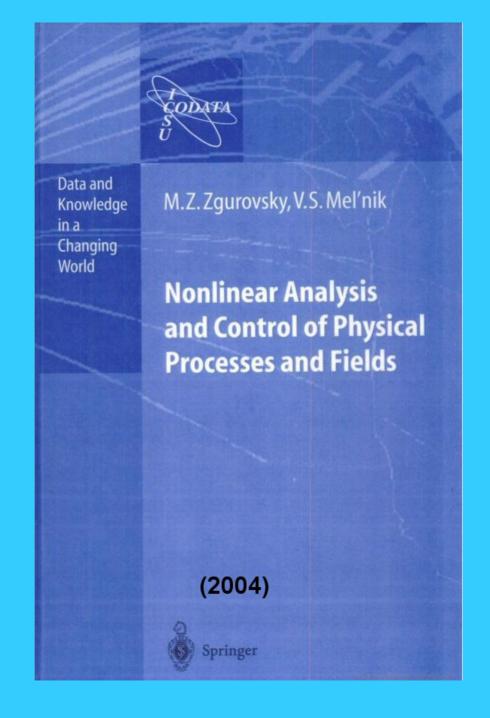
CODATA Series on Thermodynamic Properties

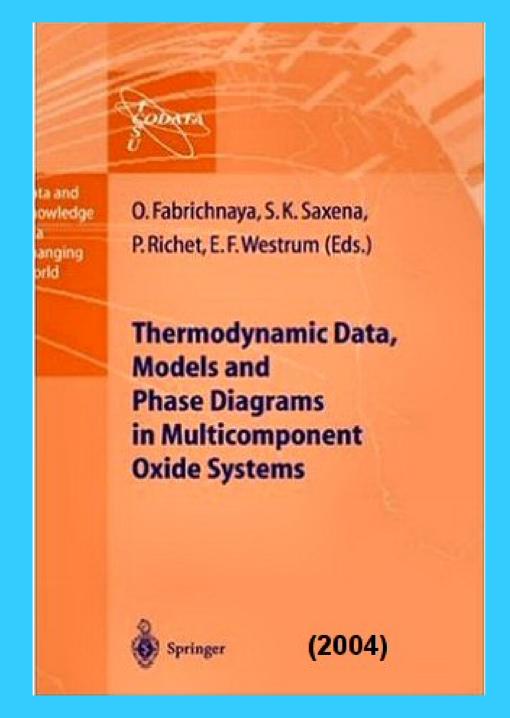
Copyrighted Material











Electronic

Publishing



Welcome to the CODATA Data Science Journal

Home

Current Issue

Previous Volumes

Submission Instructions

Scope of the Journal

Submission Terms & Conditions

Sample Submission Paper [PDF]

For Reviewers

Editorial Board

Contact



J'STAGE

The Data Science Journal is a Journal of the Committee on Data for Science and Technology (CODATA) of the International Council for Science (ICSU)

ISSN 1683-1470

The Data Science Journal is a peer-reviewed electronic journal publishing papers on the management of data and databases in Science and Technology. Details can be found in the prospectus. The scope of the journal includes descriptions of data systems, their publication on the internet, applications and legal issues. All of the Sciences are covered, including the Physical Sciences, Engineering, the Geosciences and the Biosciences, along with Agriculture and the Medical Science.

The journal publishes papers about data and data systems; it does not publish data or data compilations. However it may publish papers about methods of data compilation or analysis.

We would like to acknowledge, with thanks, the financial contribution of UNESCO to the funding of the journal.

DATA SCIENCE Journal



CODATA

<u>Available Volumes</u> | <u>Japanese</u>

Author:

Keyword:

Search

ADVANCED

Publisher Site





