

# OCTOBER 1988

A. S. Kertes

Chinese Databases

CODATA Calendar

IGU Global Data-

base Planning

MDBM-NL 6-7

Spatial Data Handling

Vapor/Liquid Equilibrium

# **HIGHLIGHTS**

Hameau de l'Horte, July 1988

On the Death of Princes: In Memorian

No more to see a brilliant Summer's day, Or quicken to the scent of gathered flowers, Never to catch a bird's song far away, No more to savour Winter's cosy hours.

Gone from the learned Council's secret power, Sharing the borrowed wisdom of a friend, Living discovery's new exciting hour Gone from a world, to reach a journey's end.

All life's committed values lose their hold, All family ties dissolve, all kinships fade, Cold judgement isolates what should be told, All your endeavours into history made.

Farewell dear friends, let memories remain Fond gifts to us, who see you ne'er again.

--- C. B. Alcock

# Dedicated to:

W.W. Hutchison	(1935-1987)
M. Carapezza	(1925-1987)
E.L. Brady	(1919-1987)
S. Angus	(1922-1987)
C.R. Masson	(1922-1988)
V.A. Medvedev	(1924-1988)
A.S. Kertes	(1922-1988)

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 Geographical Union Global Database Planning Project

The first meeting of the Global Database Planning Project (GDPP) of the International Geographical Union (IGU) was held in Tylney Hall, Hampshire, UK, 9-13 May 1988. This group aims to improve environmental research of the earth. For this purpose, a by-invitation-only meeting of eminent scientists and representatives from relevant international agencies was convened to consider the problems and produce solutions.

Specialists represented the following organizations: NASA, NOAA, the World Bank, the UN FAO, the UN Environment Program GRID, the World Meterorlogical Organization, the International Oceanographic Commission of Unesco, and ICSU bodies including the International Union for Conservation of Nature and Natural Resources, the International Society of Soil Sciences, the Panel on World Data Centers (Geophysical and Solar), the ICSU International Geosphere-Biosphere Program, and CODATA (MSTM Task Group).

The Global Database Planning Project was organized by Dr. R. F. Tomlinson (Canada), Chairman; Prof. M. F. Goodchild (Canada), Chairman of the Scientific Committee; and Prof. D. W. Rhind (Birbeck College, London), local organizer. The main conclusions reached and actions taken at the Royal Society in London, UK on 13 May were:

- Establishment of a working group on the legal issues of control, ownership, liability and copyright as they affect the construction, maintenance and use of global databases;
- Preparation of a plan for the establishment of a directory to geo-referenced databases;
- Proposals for research on key issues of accuracy, error, and data integrity;
- Efforts to develop standards for interchange of global databases between scientists and international agencies in the area of data quality and formats;
- Identification of the developments necessary to improve accessibility to global data and its usefulness to scientists working in programs related to the global environment.

(Further information is available from Dr. Helen Mounsey, Department of Geography, Birbeck College, University of London, London, UK W1P 1PA.)

The conclusions of this first meeting result from the labors of the following four working groups:

- W.G. 1: Status and needs, matching of global data to global needs (Chairman: Dr. S. Unninayer, UNEP-GRID).
- W.G. 2: Database design, data structures, and data access (Chairman: Dr. D. Marble, Ohio State University, USA).
- W.G. 3: Inputs to Global Geographic Information System (GIS) databases (Chairman: Dr. D. Kalensky, FAO).
- W.G. 4: Legal/Institutional issues (Chairman: Dr. E. V. Epstein, University of Maine, USA).

Working Group 3 recognized the urgent need to establish standards for the quality of data to be included in global

databases and to ensure their ready accessibility and recommends:

- Speeding up the establishment of elevation databases to which global thematic databases will be referenced. A NASA Working Group is currently proposing the establishment of a hierarchical global elevation data model collected with satellite and airborne sensors.
- According attention at an early stage to the definition of an appropriate coordinate and grid system for global geographic databases.
- Ensuring compatibility of global databases in terms of accuracy and information content, with mapping at appropriate scales.

They proposed that IGU establish an ad hoc advisory group on global data inputs, representing the major operations and users of such databases including representatives of UN agencies, international organizations, and scientific bodies representing the main earth, natural, and social sciences.

 by C. Bardinet, Chairman, CODATA Task Group on Multisatellite Thematic Mapping

### CODATA Personalities in the News -

Professor Daniel C. Drucker, Department of Engineering Science, University of Florida at Gainesville, was awarded a National Medal of Science by President Reagan on 15 July 1988 for pioneering contributions to the development of the theory of plasticity and of limit design, for leadership in engineering education and in engineering societies promoting excellence, and for influential advisory service to the nation. Professor Drucker is the Delegate to CODATA from IUTAM (International Union for Theoretical and Applied Mechanics).

### CODATA Calendar

1989

February

- Protein Sequence Task Group, Ringsburg, F.R.G.

March

CODATA Executive Committee, Paris, France

1990

July

15-19 12th International CODATA Conference, Columbus, Ohio, U.S.A.

20-21 CODATA General Assembly, Columbus, Ohio, U.S.A.

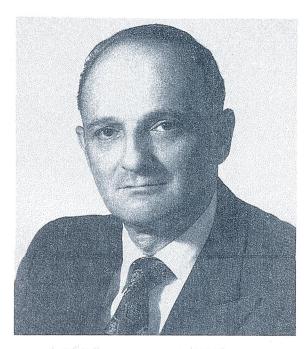
Aviezer Steven Kertes, Professor of Chemistry at the Hebrew University of Jerusalem, passed away on July 8, 1988, while on a visiting professorship at the Department of Chemistry, Catholic University, Leuven, Keverlee, Belgium. His untimely death constitutes a great loss to the scientific community in Israel, to the many national and international organizations to which he belonged and to which he contributed of his knowledge and experience, and last but not least to his many friends and colleagues in Israel and abroad.

Prof. Kertes was born May 11, 1922 in Seged, Hungary. In 1948 he graduated from the University of Belgrade, Yugoslavia with the M.Sc. degree in Chemical Engineering. In 1949 he emigrated to Israel, and in 1953 he received the Ph.D. degree in Chemistry from the Hebrew University of Jerusalem. From 1955 - 1957 he did research at the Institut du Radium, University of Paris as a post doctoral fellow, and in 1957 he returned to Israel and joined the chemical faculty of the Hebrew University of Jerusalem. In 1966 he was promoted to associate professor and in 1977 to full professor.

His research was directed, inter alia, towards the development of separation processes by solvent extraction and ion exchange methods. He investigated solution processes in non-aqueous solvents and the thermochemistry of material transfer between various solvents. His results in these and similar areas were recorded in over 150 scientific publications. In addition, he was very much concerned with the problem of evaluating numerical scientific data and their proper documentation for retrieval purposes. In this area, too, his activities ranged far and wide. Thus, from 1965 until his untimely death in 1988 he served as a member of the editorial boards of many scientific periodicals (Journal of Inorganic and Nuclear Chemistry 1965-81; Critical Review of Analytical Chemistry 1975-85; Review of Inorganic Chemistry 1977-; Colloids and Surfaces 1978-83; Journal of Dispersion Science and Technology 1978-86; Solvent Extraction and Ion Exchange 1983-; Journal of Chemical Technology and Biotechnology 1987-.

His expertise and interest in these problems made him a valuable member of many national and international commissions and organizations. He was chairman of the Analytical Chemistry Division and a member of the Executive of the Israel Chemical Society. He was a member and, later, chairman of the Israel National Committee for CODATA and Israel national delegate to that organization. CODATA he was a member of the task group on Accessibility and Dissemination of Data and chairman of the working group on Teaching and Training. It was due to his efforts that the 9th International CODATA Conference was held in Jerusalem in 1984, and the resounding success of that conference was his success, since he was mainly responsible for its organizational and professional aspects. He also organized and chaired the Fourth International Conference on Surface and Colloid Science in Jerusalem in 1981. He was active in the International Union of Pure and Applied Chemistry as a

member of the Analytical Chemistry Division and its Commission on Equilibrium Data. It was within this framework that he conceived the idea of the IUPAC Solubility Data Project and the creation, in 1979, of the Commission on Solubility Data for the project of the Solubility Data Series of which he became the editor-in-chief. In this series 30 volumes of Solubility Data have already been collected, evaluated and published, and another 70 volumes of data were contemplated in order to complete the series.



He was very much appreciated as a lecturer and teacher and held a considerable number of visiting appointments. Among others: at the Graduate School, City University of New York (1971); at the Department of Chemistry, McGill University, Montreal (1973-74): at the Department of Chemistry, Brooklyn College, CUNY, New York (1977); at the Department of Chemistry, Drexel University, Philadelphia (1982); at the Institut de Physique Nucleaire, University of Paris XI, Orsay (1983+1986); at the Department of Chemical Engineering, University of California, Berkeley, (1984-85); at the Lawrence Berkeley Laboratory, University of California, Berkeley (1987).

His work received well earned international recognition. He received the award of the International Solvent Extraction Federation at the International Solvent Extraction Conference (ISEC) in Denver, CO in Sept 1983. Shortly after his death he was awarded the Carl Hanson Medal of the International Committee on Solvent Extraction at the International Solvent Extraction Conference (ISEC 88) in Moscow, July 18-24, 1988. He will always be remembered by his colleagues and friends with affection and esteem as a warm person and a devoted scientist.

-- Eliahu Hoffmann

# Scientific Chinese Databases

Professor Mooson Kwauk (together with Professors Zhang Xiaoyang, Xu Zhihong, Hu Yaruo, and Wang Leshan, with contributions from many Chinese Working Group leaders) compiled and presented an extensive report on databases in PRC at the Ottawa 1986 CODATA Conference. Because of general interest, this material has been updated by Professor Hu Yaruo and others and is presented in part in this and the subsequent issue. This issue contains a terse status report on the main scientific databases in two categories: those of the Chinese Academy of Sciences (CAS) and other databases. Numerical, bibliographic, and management bases are included. The status code recognizes three levels of activity: those in service since 198X ("is'8X"), those underway--i.e., in progress--("prog"), and those in planning stages ("plan").

Databases of the Chinese Academy of Sciences		Scientific Database Center		
		MATERIALS PROPERTIES	prog	
<u>Database</u>	Responsible Institute	<u>Status</u>	Changchun Institute of Applied Chemistry Institute of Physics	1 0
	NUMERICAL BASES		OPTICAL & ELECTRONIC TECHNOLOGY	prog
CHEMISTRY			Changchun Institute of Optics & Fine	
Crystallogi	ran hw	is'86	Mechanics	
	an Institute of Research on the	13 00	Institute of Semiconductors	
	ructure of Matter		Scientific Database Center	
	jing University)		SOIL RESOURCES	prog
Organic Sy		is'86	Nanjing Institute of Soil Science	prog
	nghai Institute of Organic Chemistry	25 00		
	ental Chemistry	is'86	ENERGY RESEARCH	is'87
Spectra			Institute of Energy	
X-ray		is'86	Institute of Physics	
Insti	tute of Physics			
(Nar	nkai University)		BIBLIOGRAPHIC BASES	
(Fud	lan University)		CHINESE CHEMICAL ABSTRACTS	is'87
Mass Sp	pectra (ICMSIS)	is'86	Shanghai Institute of Organic Chemistry	15 0 /
	tute of Chemistry		Institute of Photographic Chemistry	
C13 NM	IR (CIAC-C-13)	is'86	histitute of 1 hotographic Chemistry	
	ngchun Institute of Applied Chemistry		CHINESE COMPUTER AND AUTOMATION	is'84
	ł Chromatography (CISOC-IR)	is'86	ABSTRACTS	
	nghai Institute of Organic Chemistry		Institute of Computing Technology	
	an Institute of Chemical Physics		Scientific Database Center	
	namics of Minerals and		Division of Technological Sciences under	
Compound		e kontrati Series (1888)	the CAS	
	yang Institute of Geochemistry	is'87	CHINESE BIOLOGICAL ABSTRACTS	prog
	g Chemistry		Shanghai Library	10
	nic Thermochemistry	is'86	Scientific Database Center	
	tute of Chemical Metallurgy		CATANDON O DONO A A DECORD A CONC	
	ectrolyte Vapor-Liquid Equilibrium	is'86	CHINESE OPTICAL ABSTRACTS	prog
(NEDB)			Changchun Institute of Optics & Fine	
	tute of Chemical Metallurgy	:-206	Mechanics	
Insti	s Solution Thermodynamics (ATDB) tute of Chemical Metallurgy	is'86	Scientific Database Center	
	l Properties of Organic Compounds	is'86	MANAGEMENT BASES	
(ORDB)				
	tute of Chemical Metallurgy		SCIENTISTS AND TECHNOLOGISTS	is'86
	ort Properties	is'86	Changchun Institute of Optics & Fine	
Insti	tute of Chemical Metallurgy		Mechanics	
			Scientific Database Center	

NOMENCLATURE AND STRUCTURE OF

Scientific Database Center

Scientific Database Center

Institute of Biophysics

Institute of Botany

Institute of Zoology

Institute of Microbiology Scientific Database Center

**TOXICITY OF SUBSTANCE & ENVIRONMENT** 

Shanghai Institute of Organic Chemistry

Institute of Environmental Chemistry

Institute of Environmental Chemistry

Shanghai Institute of Biochemistry

CHEMICAL COMPOUNDS

MOLECULAR BIOLOGY

BIOLOGICAL RESOURCES

prog

prog

is'85

prog

	ACHIEVEMENTS  Computer Lab under the CAS  Scientific Database Center	is'86	PROPERTIES OF MATERIALS  Shanghai Research Institute of Material Tsinghua University	prog prog
	PROJECTS Computer Lab under the CAS	is'86	Chinese Aeronautical Materials Data Center  CORROSION OF MATERIALS	is'88
TECHNO	Computing Center  LOGY MARKETS  Computer Lab under the CAS  Scientific Database Center	plan	Daqing Oil Field Design Institute National Network of Atmospheric Corrosion Test Stations for Materials Wuhan Research Institute of Materials Protection	prog prog prog
	List of China's Databases for Scien nology (other than those of the Chin Academy of Sciences)		ENVIRONMENTAL PROTECTION  Chinese Environmental Monitoring Center China Environmental Planning Institute	prog prog
<u>Database</u>	Responsible Institute	<u>Status</u>	OCEANOGRAPHIC ENVIRONMENT  National Oceanographic Data Center	is'85
]	AL-PHYSICAL PROPERTIES OF SUBSTA Dalian Instiltute of Technology	is'87	METEOROLOGY Central Bureau of Meterology	is'85
2	The Ministry of Chemical Industry in China Zhejiang University Beijing University of Iron & Steel Technology	is'86 is'87 is'87	HYDROELECTRIC RESOURCES Institute of Water Conservancy & Hydroelectric Power Research	prog
1	Tianjin University Nanjing Chemical Industry Company	is'87 is'87	ENERGY RESOURCES Tianjin University	prog
	East China University of Chemical Technology Qian Dao Chemical Technology Institute	is'87	PETROLEUM AND NATURAL GAS PROSPECTING	
	China Huanqiu Chemical Engineering  Corporation	is'87	Ministry of Geology & Mineral Resources Ministry of Petroleum Industry	prog prog
	China Wuhan Chemical Engineering Corporation	is'87	MINERAL RESOURCES  Ministry of Geology & Mineral Resources	prog
I	nemistry Lanzhou Petrochemical Design Institute East China Institute of Chemical	is'87 prog	COAL RESOURCES  Ministry of Coal Industry	is'87
Registe	Technology r of Toxic Chemicals	is'86	SOIL RESOURCES  Academy of Agricultural Sciences	is'87
	Academy of Environmental Sciences  MOLECULAR Science	is'86 prog	FOREST RESOURCES Academy of Forestry	is'87
7	The Ministry of Nuclear Industry	ATT Whiles	LAND RESOURCES	
	CSCIENCE Chinese Nuclear Data Center	is'85	State Planning Commission National Bureau of Surveying & Mapping	is'87 plan
	EMENTS AND BIOLOGY Huazhong University of Science and Technology	is'87		
MICROBIO Antibio	tics	is'87		
	Academy of Medical Sciences mycetes	is'88	Computers in Geography	
Agricultural Culture Collection of China		The Second Latin American Symposium on Computers in raphy is currently being organized. The meetings are sch		
<i>PALEONT</i>	OLOGY University of Geosciences	is'87	for October 1989 in Venezuela. Persons interested in pating are urged to contact Dr. Armando Guevara, c/o ES	partici-
	SM RESOURCE	is'87	New York Street, Redlands, CA 92373, USA.	



# Task Group on Materials Database Management

# Materials Database Newsletter

September 1988, Number 5

The purpose of this Newsletter is to provide an overview of national and international developments relating to all aspects of materials property databases, and to promote cooperation with respect to database design, management and use. The Editor welcomes contributions and comments from database builders, operators and users. There are no restrictions on the reproduction and distribution of the contents of this Newsletter.

NETWORKS Version MPDN2 of the Pilot MPD Network became available on September 15 1988 to US and overseas financial sponsors of the National Materials Property Data Network, Inc. Like the earlier version, it is operated from Stanford University and is accessible via Telenet through local telecommunication systems. As announced previously, the production version of the MPD Network will be available on STN International beginning in 1990. FURTHER INFORMATION: J. G. Kaufman, MPD Network, P. O. Box 02224, Columbus, Ohio 43202, USA.

The Canadian Institute for Scientific and Technical Information (CISTI), a division of the National Research Council of Canada (NRCC) has initiated a new service, the Canadian Scientific Numeric Database Service (CAN/SND). Available online from almost anywhere in the world through local telecommunications systems, CAN/SND permits users to retrieve several types of numeric data from six databases and, in several instances, perform a variety of calculations. The six databases are: CRYSTAT: NBS Crystal Data Identification File (crystallographic data and associated bibliographic sources for organic and inorganic substances, including intermetallics and minerals); CRYSTIN: Inorganic Crystal Structure Database (crystallographic data and related bibliographic references for inorganic substances with known crystal structures); CRYSTMET: NRCC Crystallographic Data File (crystallographic data and references for metallic structures determined by diffraction methods; CRYSTOR: Cambridge Structural Database (structural and bibliographic information on organics and organometallics, excluding polymers and proteins, whose crystal structures have been determined by X-ray or neutron diffraction studies since 1935); FACT: Facility for the Analysis of Chemical Thermodynamics (validated thermodynamic properties for approximately 5300 phases of over 3800 inorganic stoichiometric compounds and data for aqueous and gaseous ions, and binary organic systems); and SPIR: Search Programme for Infrared Spectra (infrared spectra for 140,000 materials). FURTHER INFORMATION: Manager CAN/SND, CISTI, National Research Council, Ottawa, Canada K1A OS2.

The workshop phase of the CEC Materials Database Demonstrator Programme will begin in October 1988. The first workshop will be held in Luxembourg on 6 October, and dates have been proposed for events in the other 11 EC countries as follows: France (7 November 1988); Germany (25 November 1988); Belgium (6 December 1988); Portugal (5 January 1989); UK (20 January 1989); Greece (3 February 1989); Spain (17 February 1989); Italy (16 March 1989); Ireland (11 April 1989); The Netherlands (April 1989); and Denmark (May 1989). The workshops will enable designers and engineers to evaluate the Programme through presentations and demonstrations of the overall system and the participating databases. FURTHER INFORMATION: Mr. G. Heine, DG XIII/B, Bat J Monnet, Plateau du Kirchberg, L-2920 Luxembourg.

DATABASES

ASM International has augmented its METSEL2 program by initiating publication of a newsletter ASM Mat DB News for end-users and developers of computerized materials property databases using the Metsel2 software. ASM is also supplying free data disks, prepared by material suppliers, to users of their PC-based systems to supplement the list of disks they market covering a wide variety of materials. New areas of activity include polymers and composites which will spur a name change in the ASM product line from Metsel2 to MatDB, reflecting the utility of the software for a wide variety of materials. FURTHER INFORMATION: Jim Blue, ASM Center for Materials Data, Metals Park, Ohio 44073, USA.

Another source of materials data for IBM PCs and clones is CenCAD Services which now offers an expanded list of datasets for thousands of thermoplastics, thermosets, thermoplastic elastomers, composites and metals, mainly obtained from materials

suppliers. In addition to property data, CenBASE Materials Database Packages include application and cost information. Computer-aided design and 3-D modeling programs are included in the software: FURTHER INFORMATION: Alton C. Mann, VP of Marketing, CenCAD Services Inc., P. O. Box 5968, Garden Grove, CA 92645, USA.

DIRECTORIES

UK Materials Information Sources 1988 by K. W. Reynard, provides comprehensive and up-to-date details of more than 650 sources of data and information on engineering materials available to users in the UK. Sources include commercial firms and consultancies, trade and research associations, publications, on-line databases and commercially available computer software compiled in the UK. Entries are listed alphabetically, with name and address, telephone, telex and fax numbers as appropriate, and a description of the services or information offered. An index allows reference by subject, acronyms, names of individual contacts or authors, and titles of books, journals and other publications. The cost of the directory is £18.00 and it is available from: The Design Council, 28 Haymarket, London SW1, UK.

### CALENDAR

11-14 October 1988: Toronto, ON, Canada

ASTM Committee E49 on COMPUTERIZATION OF MATERIAL PROPERTY DATA meeting.

19-21 October 1988: New Orleans, LA, USA

Second Conference and Workshop on COMPUTERIZATION OF WELDING INFORMATION. CONTACT: American Welding Society, Education Department, 550 NW Le Jeune Road, P. O. Box 351040, Miami, FL 33135, USA.

15-17 November 1988: Petten, The Netherlands

VAMAS Workshop on STANDARDS FOR FACTUAL MATERIALS DATABANKS. Participation will be by invitation only. CONTACT: Dr. J. Rumble, NBS, A323 Physics Building, Gaithersburg, MD 20899, USA; OR H. Kröckel, CEC-JRC, NL-1755 ZG Petten, The Netherlands.

8-12 December 1988: London, UK

12th International ONLINE INFORMATION meeting and Exhibition. CONTACT: Learned Information (Europe) Ltd., Woodside, Hinksey Hill, Oxford, UK OX1 5AU.

27-29 June 1989: St. Louis, MO, USA

ASTM Committee E49 on COMPUTERIZATION OF MATERIAL PROPERTY DATA meeting.

27-29 November 1989: Orlando, FL, USA

ASTM Committee E49 on COMPUTERIZATION OF MATERIAL PROPERTY DATA meeting. A major theme of this meeting will be: "Issues in Data Interchange"; papers on any aspect of the computerization of materials data are welcome. Abstracts of 300-500 words should be submitted by 1 January 1989 to: Dorothy Savini, ASTM, 1916 Race St., Philadelphia, PA 19103, USA.

15-21 July 1990: Columbus, OH, USA

Twelfth (Biennial) CODATA International Conference, DATA FOR DISCOVERY. CONTACT: 12th CODATA Conference, 1880 Mackenzie Drive, Suite 111, Columbus, OH 43220, USA; or to CODATA Secretariat, 51 bd. de Montmorency, 75016 Paris, France.

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## Symposium on Spatial Data Handling

Held every other year under the sponsorship of the Commission on Geographical Data Sensing and Processing of the International Geographical Union, the International Symposia on Spatial Data Handling have become one of the major technical forums in the area of GIS. The Symposium consists of thirty to forty technical papers selected by an international program committee made available in printed form at the start of the meeting.

Symposium sessions and short courses were held at the University of New South Wales located in Kensington.

Four one-day technical short courses were presented: Hierarchical Data Structures for Geographic Information Systems by Hanan Samet; The Geometry Filter: An Efficient Approach to Spatial Database Management by Jack Orenstein; Object-Oriented Databases for Geographic Information Systems by Andrew Frank; and Surface Modeling by Carl Youngman.

The next International Symposium on Spatial Data handling will be held in Zurich, Switzerland during the latter part of July 1990. Persons interested in participating are urged to contact Prof. Duane Marble, Department of Geography, 103 Bricker Hall, The Ohio State University, Columbus, Ohio 43210, USA.

# Vapor/Liquid Equilibrium

The Fourth International IUPAC Workshop on Vapor-Liquid Equilibria in 1-Alkanol + n-Alkane Mixtures Applications organized by the Chemical Process Engineering Research Institute, Department of Chemical Engineering, University of Thessaloniki, under the auspices of the IUPAC Subcommittee on Thermodynamic Data and the sponsorship of the General Secretariat of Research and Technology-Greece and the Aristotelian University of Thessaloniki, will be held 24-26 October 1988, at Thessaloniki, Greece.

The objective of the project is to work out a set of internationally recommended data on vapor-liquid equilibrium and related properties for systems. However difficult the job may be, the IUPAC Subcommittee on Thermodynamic Data has ventured to face the problem by an approach covering only two selected representative substance classes: n-alkanes, 1-alkanols, and their binary mixtures. The main emphasis will be placed on the consistent representation of equations of state, phase equilibrium and calorimetric data, obtained by multi-property fitting procedures. Whenever available, the primary data will be the result of reliable experimental measurements. Otherwise, various predictive methods, e.g., group contribution models, will be applied after careful examination of their performances. Anticipated completion of the project in 1990 will result in a final report with the recommended data.

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