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# Organization Section

## ADA EVENTS

### Future Meetings

38th Postgraduate Course: 9–12 January 1991, San Diego Marriott Hotel and Marina, San Diego, CA.

51st Annual Meeting: 21–28 June 1991, Washington Convention Center, Washington, DC.

52nd Annual Meeting: 18–23 June 1992, San Antonio Convention Center, San Antonio, TX.

### Clinical Education Program (CEP)

Funded by an educational grant from The Upjohn Company, ADA's new Clinical Education Program (CEP) "Managing Diabetes in the 1990s" focuses on helping physicians gain a better understanding of how to manage the diabetic patient, including treatments that may delay or avoid diabetic complications. The 3.5-hour seminars are specifically designed for primary-care physicians. Attendees will receive Continuing Medical Education credits. ADA affiliates will conduct approximately 100 CEP seminars during the coming year. The following ADA affiliate CEP meetings have been scheduled:

Indiana Affiliate—3 November 1990, Indianapolis.

Washington, DC. Affiliate—3 November 1990.

Delaware Affiliate—6 November 1990, Wilmington.

Michigan Affiliate—13 November 1990, Dearborn.

For more information, contact your local ADA Affiliate or Dr. Michael Stolar, Director of Health Sciences, ADA National Center, 1660 Duke Street, Alexandria, VA 22314. Tel.: (703) 549-1500, ext. 360, or 1-800-232-3472, ext. 360. To verify dates, please contact the sponsoring affiliate.

### International Conference on Diabetes and American Indians

ADA; the Native American Research and Training Center; the Indian Health Service; the International Diabetes Center; the Assembly of First Nations; the Canadian Diabetes Association; and the Medical Services Branch, Health and Welfare Canada, are cosponsoring an international conference on diabetes among American Indians 7–9 November 1990 in Minneapolis, Minnesota, at the Holiday Inn-Downtown. The conference will cover such topics as establishing and providing effective care programs, development and implementation of model community diabetes programs, and standards of care and health education recommended

for American Indians with diabetes. The program will include speakers from reservation communities and hospitals throughout Canada and the U.S. For more information, contact Dr. Robert Young, NARTC, 1642 East Helen Street, Tucson, AZ 85719, tel.: (602) 621-5560; or Virginia Toulouse, Assembly of First Nations Diabetes Conference, 47 Clarence Street, 3rd Floor, Atrium Building, Ottawa, Ontario K1N 9K1, Canada, tel.: (613) 236-0673.

### California Professional Education Symposium

The University of California, Irvine, Diabetes Research Center and Professional Education Committee, Orange County Chapter, and the ADA California Affiliate are cosponsoring "Practical Methods in Diabetes Management" 9–10 November 1990 in Costa Mesa, California, at the Westin South Coast Plaza Hotel. Twenty-three lectures and four workshops designed for primary-care physicians, podiatrists, nurses, and dietitians will address contemporary methods for achieving normal metabolic control, treatment of short-term complications, and avoidance, delay, and early recognition of and optimal treatment approaches to chronic complications of diabetes. For more information, contact the Center for Health Education, Long Beach Memorial Hospital, 2801 Atlantic Avenue, Long Beach, CA 90801-1428. Tel.: (213) 595-3811.

### University of Pennsylvania Symposium on Diabetic Complications

The ADA Greater Philadelphia Affiliate is cosponsoring the "University of Pennsylvania Symposium on Diabetic Complications" 10 November 1990 at the University of Pennsylvania. The symposium will focus on various clinical and basic science aspects of diabetic complications. For more information, contact Mahin Khatami, PhD, Department of Ophthalmology, Scheie Eye Institute, 51 North 39th Street, Philadelphia, PA 19104. Tel.: (215) 662-8037/8712.

### Controlling Diabetes Complications in 1990s

The ADA New York Downstate Affiliate will sponsor "Controlling Diabetes Complications in the 1990s" 11 November 1990 in New York City at the Mt. Sinai Medical School. The course will focus on the complications of diabetes with emphasis on pathophysiology, diagnosis, evaluation, and new treatment modalities. Guest speakers will include Dr. Louis Angioletti, Dr. Ira Laufer, Dr. Robert McEvoy, and Dr. Herbert Ross. The course is ap-

proved for category I AMA credit. For further information, contact Helen Levine, ADA New York Downstate Affiliate office, 505 Eighth Avenue, New York, NY 10018. Tel.: (212) 947-9707.

### Multidisciplinary Symposium on Diabetic Foot

The University of Texas Health Science Center at San Antonio and the ADA Texas Affiliate are cosponsoring a symposium on the diabetic foot 8–9 December 1990 at the Hyatt Regency on the River, San Antonio, Texas. The symposium will take a multidisciplinary approach and will focus on practical treatment of the diabetic foot and foot-care research trends. For more information, contact Susan Duncan, Continuing Education Department, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284. Tel.: (512) 567-4444.

### Focus for 90s Nutrition and Diabetes Symposium

The ADA Council on Nutritional Science and Metabolism (CONSAM) is sponsoring "Nutrition and Diabetes Mellitus: Focus for the 90s" 22–23 June 1991 in Baltimore, Maryland, at the Hyatt Regency-Inner Harbor. Among the topics to be discussed are macronutrient composition and caloric dilution and the emergence of diabetes and changes in diet in developing countries. For more information, contact Liz DeShelter, RD, Diabetes Care Center, Riverside Methodist Hospitals, 3535 Olentangy River Road, Columbus, OH 43214. Tel.: (614) 261-5096.

## OTHER EVENTS

### 14th IDF Congress

The International Diabetes Federation will hold its 14th Congress 23–28 June 1991 at the Washington Convention Center in Washington, DC. The program will include scientific and clinical sessions covering such topics as clinical care, health-care delivery, education, public awareness, fund raising and volunteerism, association management, government and association relations, and youth services. Preliminary registration forms are available. For more information, write to Linda Cann, American Diabetes Association, 1660 Duke Street, Alexandria, VA 22314. Tel.: 800-232-3472, ext. 281.

### **Travel Grant Deadline for 14th IDF Congress**

The IDF Congress will be held 23–28 June 1991 in conjunction with the ADA 51st Annual Meeting and Scientific Sessions. For more information and an application, please contact the Travel Grants Committee, American Diabetes Association, 1660 Duke Street, Alexandria, VA 22314.

### **Macrovascular Complications of Diabetes Mellitus**

A satellite symposium entitled "Macrovascular Complications of Diabetes Mellitus" will be held 20–22 June 1991 in Charleston, South Carolina. Registration deadline is 28 February 1991. For more information, contact Dr. Maria Lopes-Virella, Veterans Administration Medical Center, Research Services, 109 Bee Street, Charleston, SC 29403. Tel.: (803) 577-5011, ext. 7542.

### **India-USA Symposium and Workshop on Endocrinology, Metabolism, and Diabetes**

The All India Institute of Medical Sciences will hold an international symposium on endocrinology, metabolism, and diabetes, "EMD—90," 27–31 December 1990 in New Delhi, India. Among the topics to be discussed are diabetes mellitus; pediatric and reproductive endocrinology; and bone, mineral, and lipid metabolism. For more information, contact Dr. N. Kochupillai, FAMS, EMD—90, Department of Endocrinology, Metabolism, and Diabetes, All India Institute of Medical Sciences, New Delhi 110029, India.

### **3rd Congress on Trace Elements in Medicine and Biology**

The French Society for Study and Research on Essential Trace Elements will hold its 3rd Congress on Trace Elements in Medicine and Biology 15–18 January 1991 at Les Deux Alpes, France. The program will focus on chromium, including discussions on chromium in diet and in diabetes, and trace elements, including a discussion on zinc and glucose tolerance. For more information, contact Richard Zawislak, Laboratoire d'Analyses, Institut de Chimie Biologique, 11 Rue Humann, 67085 Strasbourg Cedex, France.

### **Congress on Fructose and Fructose-Containing Foods**

The International Congress on Fructose and Fructose Containing Foods: Nutritional and Metabolic Aspects—Economic Considerations will be held 21–23 March 1991 in Paris, France. This event is under the patronage of the European Association for the Study of Diabetes. Abstract deadline is 10 November 1990. For more information, contact Convergences-Fructose, 120 Avenue Gambetta, F-75020 Paris, France. Telex: 216 911 F. Fax: (33) (1) 40310165.

### **5th Milan International Meeting on Diabetes**

The Scientific Institute of the San Raffaele Hospital is announcing the 5th Milan International Meeting on Diabetes, to be held 21–23 March 1990 in Milan, Italy. Among the topics to be discussed are glucose-transporter and insulin action, diabetic nephropathy, genetic epidemiology, lipoprotein, and immunology of diabetes. Abstract deadline is 1 December 1990. For more information, contact Piero Micossi, MD, Istituto Scientifico H San Raffaele, Via Olgettina, 60, 20132 Milan, Italy. Tel.: 39-02-21702759; or Fax: 39-02-21702752.

### **ADA GRANTS AND AWARDS**

#### **Feasibility Grants**

These grants provide up to \$40,000/yr for 2 yr for new and innovative diabetes research. The funds are to be used for equipment, supplies, and salary for technical assistance. Established diabetes investigators must propose marked departures from current research. Investigators in other fields are encouraged to apply their expertise to diabetes research. Applicants must be U.S. citizens or permanent residents and be members of U.S. university-affiliated institutions or the equivalent within the U.S. or U.S. possessions. Application deadline is 1 February 1991 for funding beginning 1 July 1991.

#### **Research and Development Awards**

These awards provide a maximum of \$65,000/yr for 3 yr to support young investigators with 2–5 yr of postdoctoral research experience. The

funds support an investigator's salary and research program and enable the investigator to initiate an independent research effort that will lead to future long-term research funding. Applicants must be U.S. citizens or permanent residents and hold independent faculty positions at U.S. university-affiliated institutions within the U.S. and U.S. possessions. Application deadline is 1 February 1991 for funding beginning 1 July 1991.

### **Lions Club International Clinical Research Program in Diabetic Eye Disease**

This program supports clinical or applied research in diabetic retinopathy in the U.S. and abroad. Awards up to \$40,000/yr for 2 yr will be given to support new treatment regimens, epidemiology, and translation research. In addition, funds will be provided to support the training of foreign investigators in U.S. research institutions, to enable U.S. investigators to conduct training programs in foreign institutions, and to provide equipment for clinical research in diabetic retinopathy. Application deadline is 1 February 1991 for 1 July 1991 funding.

### **Clinical Research Grant Program**

Grants of up to \$50,000/yr are provided for 3 yr for studies that directly involve humans. In vitro research on human blood or tissue samples to measure effects of environmentally induced (e.g., diet, drugs) changes qualifies as clinical research under this program; simply using human tissues for laboratory research does not qualify. The funds may be used for equipment, supplies, and/or salary (excluding principal investigator's salary). Applicants must be U.S. citizens or permanent residents and hold faculty-level appointments at U.S. university-affiliated institutions. Application deadline is 1 February 1991 for 1 July 1991 funding. Application forms for all programs are available by contacting the American Diabetes Association National Service Center, Division of Scientific and Medical Affairs, 1660 Duke Street, Alexandria, VA 22314. Tel.: (703) 549-1500 or 800-232-3472.

TABLE 1  
Système International (SI) units

Measurement	SI unit	Common unit	Conversion factors	
			Common → SI	SI → common
Acetone	μM	mg/dl	172	0.006
Aldosterone	pM	ng/dl	27.7	0.036
Amino acid fractionation				
Alanine	μM	mg/dl	112	0.009
α-Aminobutyric acid	μM	mg/dl	96.9	0.010
Arginine	μM	mg/dl	57.4	0.174
Asparagine	μM	mg/dl	75.7	0.132
Aspartic acid	μM	mg/dl	75.1	0.133
Citrulline	μM	mg/dl	57.1	0.018
Cystine	μM	mg/dl	41.6	0.024
Glutamic acid	μM	mg/dl	68.0	0.015
Glutamine	μM	mg/dl	68.4	0.015
Glycine	μM	mg/dl	133	0.008
Histidine	μM	mg/dl	64.5	0.016
Hydroxyproline	μM	mg/dl	76.3	0.013
Isoleucine	μM	mg/dl	76.2	0.013
Leucine	μM	mg/dl	76.2	0.013
Lysine	μM	mg/dl	68.4	0.015
Methionine	μM	mg/dl	67.0	0.015
Ornithine	μM	mg/dl	75.7	0.013
Phenylalanine	μM	mg/dl	60.5	0.017
Proline	μM	mg/dl	87.0	0.012
Serine	μM	mg/dl	95.2	0.011
Taurine	μM	mg/dl	79.9	0.013
Threonine	μM	mg/dl	84.0	0.012
Tryptophan	μM	mg/dl	49.0	0.020
Tyrosine	μM	mg/dl	55.2	0.018
Valine	μM	mg/dl	85.4	0.012
Amylase, enzymatic	U/L	U/L	1.00	1.00
Calcium	mM	mg/dl	0.250	4.00
Carbon dioxide content	mM	meq/L	1.00	1.00
Cholesterol	mM	mg/dl	0.026	38.7
Citrate	μM	mg/dl	52.1	0.020
Cortisol	nM	μg/dl	27.6	0.360
C-peptide	nM	ng/ml	0.331	3.02
Creatinine	μM	mg/dl	88.4	0.011
Creatinine clearance	ml/s	ml/min	0.017	60.0
Cyclic adenosine monophosphate	nmol/mmol creatinine	mol/g creatinine	113	0.009
Epinephrine	pM	pg/ml	5.46	0.183
Estrogen	pM	pg/ml	3.67	0.273
Fatty acids, nonesterified	g/L	mg/dl	0.01	100
Fructose	mM	mg/dl	0.056	18.0
Galactose (children)	mM	mg/dl	0.056	18.0
Gastrin	ng/L	pg/ml	1.00	1.00
Gastroinhibitory polypeptide	pM	pg/ml	0.201	4.98
Glucagon	ng/L	pg/ml	1.00	1.00
Glucose	mM	mg/dl	0.056	18.0
Glycerol (free)	mM	mg/dl	0.109	9.21
Growth hormone	μg/L	ng/ml	1.00	1.00
β-Hydroxybutyrate	μM	mg/dl	96.1	0.010
Hydroxyproline	μmol · day <sup>-1</sup> · m <sup>-2</sup>	mg · day <sup>-1</sup> · m <sup>-2</sup>	7.63	0.131
Insulin	pM	μU/ml	6.00	0.167
Lactate (as lactic acid)	mM	meq/L	1.00	1.00
Lipase	U/L	U/L	1.00	1.00
Lipoproteins	mM	mg/dl	0.026	38.7
Norepinephrine (radioenzymatic procedure)	nM	pg/ml	0.006	169
Osmolality	mmol/kg	mosmol/kg	1.00	1.00
Pancreatic polypeptide	pM	pg/ml	0.239	4.18
Phosphate (as inorganic phosphorus)	mM	mg/dl	0.323	3.10
Phospholipid phosphorus, total	mM	mg/dl	0.323	3.10
Phospholipids, substance fraction of total phospholipid				
Lysophosphatidylcholine	Express as decimal	% of total	0.010	100
Phosphatidylcholine	Express as decimal	% of total	0.010	100
Phosphatidylethanolamine	Express as decimal	% of total	0.010	100
Sphingomyelin	Express as decimal	% of total	0.010	100
Potassium	mM	meq/L	1.00	1.00
Prolactin	μg/L	ng/ml	1.00	1.00
Protein, total	g/L	g/dl	10.0	0.100
Pyruvate (as pyruvic acid)	M	mg/dl	114	0.009
Renin	ng · L <sup>-1</sup> · s <sup>-1</sup>	ng · ml <sup>-1</sup> · h <sup>-1</sup>	0.278	3.60
Somatostatin	pM	pg/ml	0.611	1.64
Steroids				
Hydrocorticosteroids (as cortisol)	μmol/day	mg/day	2.76	0.363
17-Ketogenic steroids (as dehydroepiandrosterone)	μmol/day	mg/day	3.47	0.288
17-Ketosteroids (as dehydroepiandrosterone)	μmol/day	mg/day	3.47	0.288
Ketosteroid fractions				
Androsterone	μmol/day	mg/day	3.44	0.290
Dehydroepiandrosterone	μmol/day	mg/day	3.47	0.288
Etiocholanolone	μmol/day	mg/day	3.44	0.290
Thyroxine	nM	μg/dl	12.9	0.078
TSH (thyroid-stimulating hormone)	mU/L	μU/ml	1.00	1.00
Urea nitrogen	mM	mg/dl	0.357	2.8
Vasoactive intestinal polypeptide	pM	pg/ml	0.331	3.02