

North Central Section News



Prof. Reiser receives the Bailey Award from North Central Section President R.G. Krishnamurthy.

Bailey Award Dinner

The 16th Presentation Dinner of the Alton E. Bailey Award was held on March 17, 1976, at the Mug Pub Restaurant in Itasca, IL. The award was given by the North Central Section to Raymond Reiser, Distinguished Professor of the Department of Biochemistry and Biophysics at Texas A&M University, in recognition of his contributions to the understanding of fatty acid and cholesterol metabolism, his illustrious career as an educator, and his outstanding contributions to the American Oil Chemists' Society (see April 1976 *JAOCs*). Reiser was introduced by Henry Rakoff of Northern Regional Research Center. Last year's medalist, W.M. Cochran of Swift & Co., was present at the meeting.

Following the presentation of the Bailey Award by R.G. Krishnamurthy, North Central Section president, Reiser delivered his medal address entitled "The Interdependent Effects of Dietary Saturated and Polyunsaturated Fats, Cholesterol, and Phytosterols on Cholesterol Metabolism." He described his recent research in which eight casein-sucrose-cellulose semisynthetic diets were fed to 220-225 g male and female BHE rats. These diets contained either (1) 15% sterol-free lard; (2) 15% sterol-free safflower oil; (3 and 4) diets 1 and 2 with 0.5% cholesterol; (5 and 6) diets 3 and 4 with 0.25% mixed soy sterols; and (7 and 8) diets 3 and 4 with 0.5% soy sterols.

It was found that, after 10-12 weeks on these diets, the dietary fat alone has no effect on serum cholesterol but does increase serum triglycerides above the fat-free diet level, the lard more than the safflower oil. In addition, neither fat has any effect on liver cholesterol, but the cholesterol-free lard does result in higher liver triglycerides than sterol-free safflower oil.

Addition of cholesterol to the sterol-free lard increases serum cholesterol in the female from ca. 90 mg/100 ml to ca. 500 mg/100 ml. Its addition to the sterol-free safflower oil increases serum cholesterol to ca. 400 mg/100 ml. In the male, the two fats with cholesterol increase serum cholesterol from ca. 90 mg/100 ml to 200 mg/100 ml and 150 mg/100 ml, respectively. Liver triglyceride is little affected by dietary cholesterol in the female but is increased fivefold in the male.

One-half percent plant sterols in the cholesterol-containing diets counteracts the effect of cholesterol on serum cholesterol. The plant sterols, on the other hand, increase serum triglycerides pronouncedly, especially in the males, but decrease liver triglycerides.

Diet cholesterol decreases hepatic 3-hydroxy-3-methylglutaryl Coenzyme-A reductase and increases cholesterol 7 α -hydroxylase. Addition of plant sterols counteracts these cholesterol effects on the enzymes. Dietary cholesterol also causes a large increase in fecal bile acids, and plant sterols partially counteract this increase.

Reiser pointed out that there are many complex relationships between serum cholesterol levels and various components of the diet, including possible effects of different forms of dietary fiber. In view of these results, it seems unjustified for healthy individuals with normal blood cholesterol levels to avoid saturated fats and cholesterol-containing foods.

Bailey Award Fund

The following firms sponsored the 1976 Bailey Award Fund: The Harshaw Chemical Co., The Procter & Gamble Co., De Laval Separator Co., Swift & Co., Sargent-Welch Scientific Co., Oscar Mayer & Co., CPC International, Inc., Girdler Chemical, Inc., Kraftco Corporation, Ashland Chemical Co., Dravo Corporation, Central Soya Co., Inc., Beatrice Foods, Hunt-Wesson Foods, Inc., Interstate Foods Corp., Lever Brothers Co., General Mills, Inc., Stepan Chemical Co., Glidden-Durkee, Hoffmann-La Roche, Inc., Arthur G. McKee & Co., and General Mills Chemicals, Inc.

New Officers

The election of North Central Section officers for 1976-1977 was also held at this meeting. The new officers are Bob Husch (Interstate Foods), president; Bart Greenwell (Groen), vice president; and Mike Chrysam (Kraftco), secretary-treasurer. Dan Sullivan (Central Soya), Jack Suriano (EMI Corp.), and Vern Witte (Swift & Co.) were elected members-at-large.

Upcoming Ladies' Night

The next meeting of the North Central Section will be the traditional Ladies' Night to be held in the Cavalier Room of the Itasca Country Club, Itasca, IL, on May 19, 1976. The guest speaker for the evening will be Dorothy Garrett, refrigerated products manager, Kraft Kitchens, Kraftco Corporation. Ms. Garrett's presentation will be "Advertising—A Consumer Message." ■



Left to right: R. Reiser (Texas A&M), W.E. Prorise (Central Soya), I.L. Balazs (Central Soya), and J.L. Williams (Kraftco).



Lars Wiedermann, Swift & Co. (left), and Jean Carden, Kraftco.



R.A. Reiners, CPC International (left), and Bart Greenwell, Groen.



Left to right: L.H. Wiedermann (Swift), B.F. Szuhaj (Central Soya), R. Husch (Interstate Foods), R. Reiser (Texas A&M), R.G. Krishnamurthy (Kraftco), L.D. Metcalfe (Armak), and H. Rakoff (Northern Regional Research Center).