

INTERACTIVE CARTOGRAPHY, LARGE SYSTEMS

There were two Interactive Cartography, Large Systems sessions. Bryce Schrock of the U.S. Army Topographic Laboratory chaired both sessions.

James B. Campbell of the Virginia Polytechnic Institute presented the paper "Automated Production of a Large Scale Thematic Atlas". This atlas deals with a portion of a U.S.G.S. 7.5 minute quadrangle and was produced jointly by the Kansas Geological Survey, Lawrence, and the Experimental Cartography Unit, London. Maps portrayed in the atlas include the topics of slope, topography, soil and depth to bedrock.

M. Mosaad Allam, of the Department of Energy, Mines and Resources, Canada, presented the paper entitled "Multiple System Interactive Compilation with Distributive Computer Network". His paper presents a brief description of the configuration of the interactive map compilation system of the Topographical Survey. Experience using the present system for digital topographic mapping is described and suggestions regarding future systems development are given.

A third paper entitled "MOSS/WAMS - Conceptual and Photogrammetric Discussion of a Large Scale Geographic Information System" was presented by Carl Reed of the U.S. Fish and Wildlife Service. (Paper not included in proceedings.) MOSS and WAMS are the display and analysis and digitizing systems respectively within the geographic information system, EIDA. Reed described the design and use of these two subsystems and presented several example products of the system. Also, some philosophical remarks were made regarding the use and acceptance of large scale geographic information systems.

Mark Henriquez of Lawrence Berkeley Laboratory presented the paper, "Energy Analysis by Means of Computer Generated Interactive Graphics". This paper describes a joint effort by two LBL departments to assess the impacts of environmental residuals resulting from proposed alternatives in energy production activities within Federal Region IX. A new graphics system being

developed at LBL has been particularly advantageous in this attempt.

P.F. Grosso and A.A. Tarnowski of Image Graphics presented a paper, "Electron Beam Recorders for Automated Cartography". Their paper deals with a technical description of an electron beam recorder system for producing aerospace, topographic, and hydrographic charts, and other cartographic products.

Bryce Schrock presented a talk entitled "Large Interactive Cartographic Systems". (Paper not included in proceedings.) In this talk, Schrock described the interactive systems of the U.S. Army Topographic Laboratory.