CADASTRAL MAPPING

Three sessions were held, the first was chaired by Robert T. Aangeenbrug from the University of Kansas, the second by Ron Domsch from the Wyandotte County Base Mapping Project and the final session was a panel discussion chaired by the conference chairman.

William Huxhold presented a report on the interactive computer graphics system of the City of Milwaukee. noted that three major applications were implemented in 18 months. The first of the applications involves digitizing four different map series from three City departments: Engineer's Quarter Section Maps, the Official Map, the Tax Assessor's Plat page maps, and the Planner's Land Use Quarter Section Maps. Another application of the system is the use of the digitized data for map updating the production of background drawings for street paving plans; production of a Quarter-Quarter base map for the Sewer Connection Atlas; and a Half Section base map for the sewer system. most recently implemented application of the system is thematic map design which produces color choropleth An application being developed is the Graphics Inquiry Capability which uses a data base management system to interactively retrieve data from a text data base and display that information onto the parcel-based map.

George Donatello presented "Property Appraisal Mapping: Pinellas County, Florida". He noted that the Property Appraiser Mapping Project involves 25 technicians working on photo interpretation, base preparation, ownership compilation, digitizing, plotting and associated data base creation. The size of the data base (300,000 ownership parcels on 1200 map sheets), hardware, software, "turnkey" operation, and budget have caused some delays and results to be a little less than had initially been expected. The Project is finally on track; it is expected that it will take 2-3 years to complete and implement all of the systems changes we are now working on. The unique feature of the project has been the financing and personnel that have been provided through CETA Grants.

A presentation by H.T. Christie concluded the first session. The effective digital mapping for a relative-

ly small city at a 1:1000 scale must be put in a context of schedule, budget and utility. A cost-effective approach in a local context he argued, is the principal means of getting and keeping local government support. Additionally the personal style and political effectiveness of the technical manager must be applied to the city's management as well as its mapping team.

Kenneth Pyle's paper "Automated Land Records and Mapping in Local Government -- A Case Study in San Diego" examines current land records keeping systems, LIMS system design parameters, alternative systems and discusses organizational, funding and implementation San Diego County's method of data input envisioned for LIMS will utilize both a review of existing land records and County-wide survey operations which will establish a geographic land net based on engineering calculations in lieu of digitized map data. heart of the LIMS system will be a large central processing unit to which numerous peripheral devices or minicomputer systems can be connected. The land related data to be stored, determine that advanced data base management technology be specified. This data base management system must be capable of supporting up to 24 terminals as well as handling and outputting both graphic and text information.

William Barg discussed "Cadastral Aerial Mapping and a Permanent Parcel Numbering System -- Tools for Local Government". He noted that a large portion of the financial structure of local government is based on the foundation of property assessments. The most important basic tool that can be provided to assist the assessor is cadastral aerial maps with a permanent parcel numbering system. A tax mapping system consists of at least three parts: (1) a graphical data base, the tax map, which shows the size and location of each parcel of land; (2) a register which provides information on land ownership, assessed value, source of title, taxes; and (3) a parcel numbering system which links the register data and graphic data: Computer assisted cartography and interactive graphics systems are applicable to mapping and numbering programs, but it is mandatory that the needs of the users be subjected to a thorough cost/ benefit analysis.