

# The Ashtech GPS Seminars

*Gain a better understanding of GPS technology and its applications*

As part of Ashtech's ongoing commitment to the GPS community, we have expanded our technical training program for surveyors, navigators and all other occupations using GPS positioning technology.

The well-balanced curriculum combines the theoretical aspects of GPS along with hands-on training. Courses are geared to the practical use of GPS with a layman's explanation of the operation of the GPS signal processing methodologies.

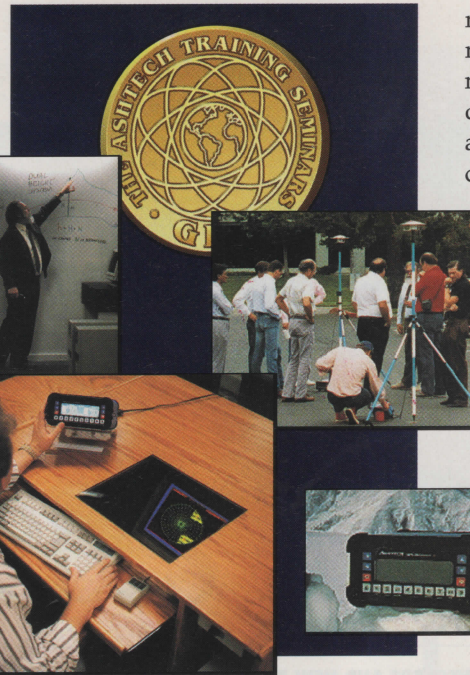
We believe in concepts rather than equations.

The Ashtech GPS Training Seminars are conducted in a modern learning lab, equipped with the latest audiovisual and computer training aids, including two color projector screens for digital and video presentations. Over 20 individual work stations with dedicated computer systems provide extensive software training. The latest GPS equipment is used for real-time, hands-on field training.

## Professional Instruction

The faculty includes many pioneers in GPS systems and software development, successful business people as well as those with extensive academic and theoretical knowledge in advanced geodesy, orbital mechanics and digital control systems.

Four week-long seminars are scheduled: Basic Surveying and Dif-



ferential Positioning each month; Advanced Surveying and CAD Solutions every other month. This program allows students, especially international students, to attend all four seminars in any single month. A certificate of completion is awarded at the conclusion of each seminar.

## GPS Course Syllabus

**Basic GPS Surveying** is for new or potential GPS surveyors as well as field and office technicians who post-process data, supervisors who analyze data and others interested in GPS surveying methodology.

**Advanced GPS Surveying** is for the surveyor with some experience, field and office technicians who want to know

more about kinematic and pseudo-kinematic techniques and professionals who need to know data analysis, network design and analysis using least-squares adjustments and dual-frequency processing, problem data sets and cycle slip fixing.

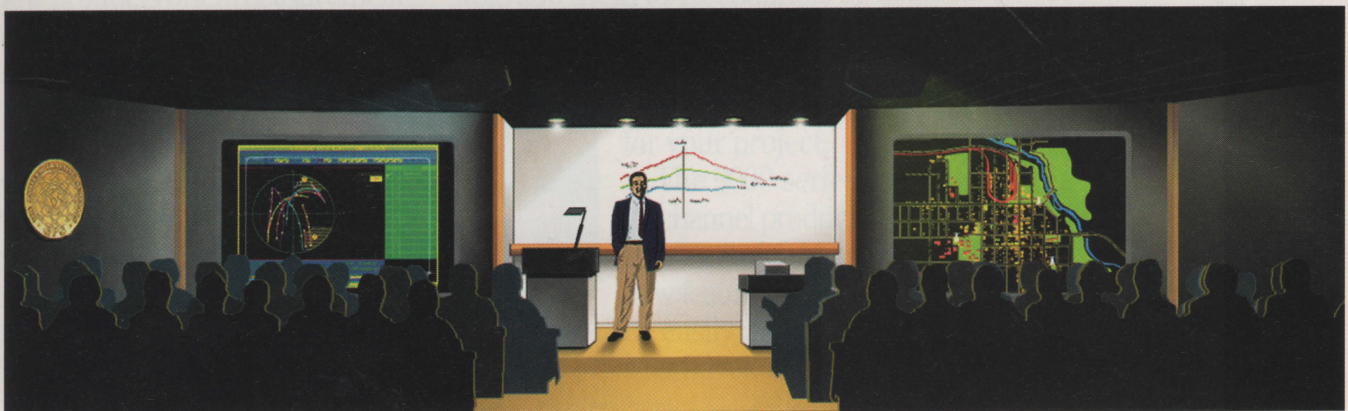
**Real Time Differential GPS** is recommended for those involved in navigation, hydrography, aerial photogrammetry and other real-time positioning applications of GPS.

**GIS Data Acquisition** with GPS is aimed at GIS field and office technicians and GIS administrators. Topics include post-processed code-phase and carrier-phase differential positioning, GPS CAD displays and links to existing GIS databases.

**GPS CAD Solutions** pack is for the advanced Surveying/GIS technician who produces finished CAD products.

The Ashtech training center in Sunnyvale, California is convenient to both San Francisco and San Jose International Airports and is surrounded by a network of quality hotels and restaurants.

To learn more about this series of exciting GPS Seminars and to reserve your place in this vital career field, call toll-free the Director of Training at Ashtech 1-800-229-2400.





## Precision, Power and Performance . . .

Ashtech's comprehensive suite of GPS planning, processing and presentation software offer the practicing professional the best combination of interface and performance features.

### Multi-Site Mission Planning

With a keystroke or click of a mouse, users can display periods of good satellite coverage for each selected site... worldwide, along with Skyplots, satellite availability and many forms of DOP information. Advanced graphics aid interpretation and modification of individual parameters. This is the only program which automatically determines multi-site visibilities and the effects of multi-site obstructions on satellite availability.

### Survey Database Manager

Geodetic control and vector information data integrity are the primary building blocks of Ashtech's Survey Database Manager. Graphic display of stations and vectors aid project planning, evaluation of network design, and selection of tagged baselines for export. Users can print out station and vector information for reconnaissance or final reports.

### FILLNET Network Adjustment

Ashtech's proven FILLNET has been upgraded to improve the performance of the Least Squares network adjustment. Input files include both Float and Fixed Double Difference solutions for all baseline vectors.

Through the graphic interface, setup parameters can be easily accessed and modified. Adjustments can be performed on many user-selected ellipsoids and geoid separations are automatically computed for each station.

### PRISM™ Post Processing

After downloading data, the user need only verify field entry information (antenna heights and meteorological data) and enter a known position prior to batch or manual processing in static, pseudo-kinematic, kinematic, or differential (DGPS) modes.

High-volume processing is assured with automatic cycle slip detection and correction algorithms. Processing parameters and observables, such as the Linear Combination (LC) and Widelaning, can be modified for flexible operator control. (Widelaning observ-

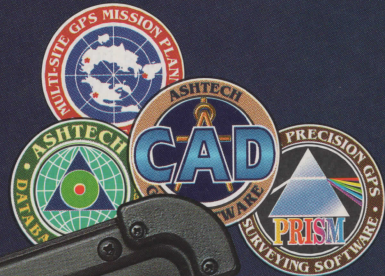


# PRISM

From downloading data to creating a final report, Ashtech's new automated PRISM™ software package assures a successful GPS survey. At the heart of the package are the processing algorithms which consistently produce precise baseline vectors and station positions from C/A code, codeless L2 and P Code single and dual frequency data.

Through a top-level, multi-graphic interface, the auxiliary packages—Mission Planning, Fillnet, GPS/CADD, and Survey Database Manager can be accessed with a simple click of the mouse. Statistical information accompanies baseline vector and station positions. Once all data is processed, output files pass to the Database for storage and/or Fillnet for a least-squares network adjustment.

Call or write for details: Ashtech, 1170 Kifer Road, Sunnyvale, CA 94086. Phone (408) 524-1400, Fax 524-1500.



## .from Field to Finish!

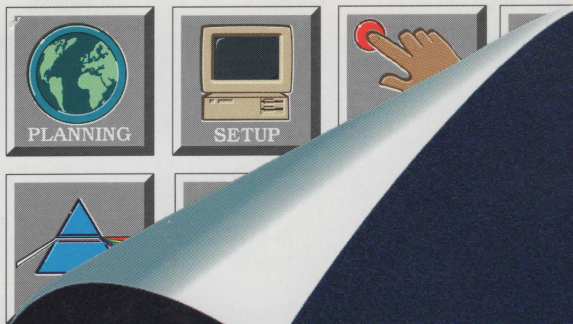
ables are especially suited for Rapid Static surveys as well as long baselines, increasing the ability to fix ambiguities with shorter observation spans).

### GPS/CADD Computer Aided Drafting and Design

The newest addition to Ashtech's comprehensive suite of PRISM surveying software is GPS/CADD—a multi-level package of advanced GPS solution modules.

Through a simple-to-use graphic interface program, point and vector information is imported directly into the Basic CAD module, facilitating the generation of survey network plots for analysis and inclusion in final reports.





ASHTECH PRECISION GPS  
SURVEYING SOFTWARE

**PRISM**



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