SATELLITE DATA COLLECTION PLATFORM INSTALLATION AND OPERATION WORKSHOP

USGS-2016-0222-Stennis Space Center, MS

Hydrologic Instrumentation Facility (HIF)
Stennis Space Center, MS
1-800-382-0634

Agenda

Monday

08:00 **Opening Remarks/Welcome to HIF**

HIF Repairs and Service

Tour of HIF Facilities

Things To Consider At Your DCP Sites

- Antennas
- Antenna Aiming
- Cabling
- Solar Panels
- Masts
- Gagehouse Wiring and Setup
- Tools and Supplies

Introduction to SDI-12

11:30 LUNCH

12:30 **The Sutron SatLink2 DCP**

- Overview
- Inputs and Outputs
- Programming Basics
- Measuring Simple Sensors
  - Shaft Encoder
  - Tipping Bucket
- Measuring Multi-Parameter Sensors
- Submersible Pressure Transducer
- Logging and Retrieving Data
- Making ST GOES Transmissions
- Making Random GOES Transmissions
  - Setting Up Alarm Conditions
- Saving Programs (Setups)
- Question & Answer Session on Sutron SatLink2

Student Challenge Exercise- Sutron SatLink2

17:00 **DISMISSAL: dependent upon completion of tasks**

Tuesday

08:00 **The DAA Model H-522+ DCP**

- Overview
- Inputs and Outputs
- Programming Basics
- Measuring Simple Sensors
  - Shaft Encoder
  - Tipping Bucket
- Measuring Multi-Parameter Sensors
- Logging and Retrieving Data
- Making Self-Timed (ST) GOES Transmissions
- Making Random GOES Transmissions
  - Setting Up Alarm Formulas
- Saving Programs (Setups)
- Question & Answer Session on DAA Model H-522+

Student challenge Exercise-DAA H-522+

11:30 LUNCH

12:30 **Microcom GTX/Xpress**

- Overview
- Inputs and Outputs
- Programming Basics
- Measuring Simple Sensors
  - Shaft Encoder
  - Tipping Bucket
- Measuring Multi-Parameter Sensors
- Logging and Retrieving Data
- Making Self-Timed (ST) GOES Transmissions
- Making Random GOES Transmissions
  - Setting Up Alarm Formulas
- Saving Programs (Setups)
- Question & Answer Session on Microcom Xpress

Student challenge Exercise-Microcom GTX

17:00 **DISMISSAL: dependent upon completion of tasks**.

Wednesday

08:00 **FTS AXIOM**

- Overview
- Inputs and Outputs
- Programming Basics
- Measuring Simple Sensors
  - Shaft Encoder
  - Tipping Bucket
- Measuring Multi-Parameter Sensors
- Logging and Retrieving Data
- Making Self-Timed (ST) GOES Transmissions
- Making Random GOES Transmissions
  - Setting Up Alarm Formulas
- Saving Programs (Setups)
- Question & Answer Session on FTS Axiom

Student challenge Exercise

11:30 LUNCH

12:30 **Introduction to the GOES System**

Interpreting GOES message traffic

New Equipment and Trends in Instrumentation

Overview of Campbell Scientific Equipment

Alternative Telemetry Systems

HIF Instrument News

Class Photograph

17:00 **DISMISSAL: dependent upon completion of tasks**

THURSDAY

08:00 **System Maintenance and Troubleshooting**
Hands-on applications in set-up, operation, maintenance and troubleshooting of data collection platform systems.

11:30 LUNCH

12:30 **System Maintenance and Troubleshooting (Continued)**

16:30 **Class Critiques**

Open Discussion and Specific Questions

17:00 DISMISSAL: dependent upon completion of tasks

Presenters

Janice Fulford, Chief HIF, jfulford@usgs.gov
Frank Henry, Chief Field Services Section, fshenry@usgs.gov
Joanne Jones, Publications Specialist, jcjones@usgs.gov

Instructors

Keith Dardar, Electronics Technician, kmdardar@usgs.gov
Scott Kimball, Hydrologic Technician, skimball@usgs.gov
Gerald Kunkle, Electronics Engineer, gkunkle@usgs.gov
Richard Pardee, Electronics Technician, rwpardee@usgs.gov
Ed Parrozzo, Electronics Technician, parrozzo@usgs.gov

Course Coordinator: Richard Pardee: 228-688-2111; rwpardee@usgs.gov