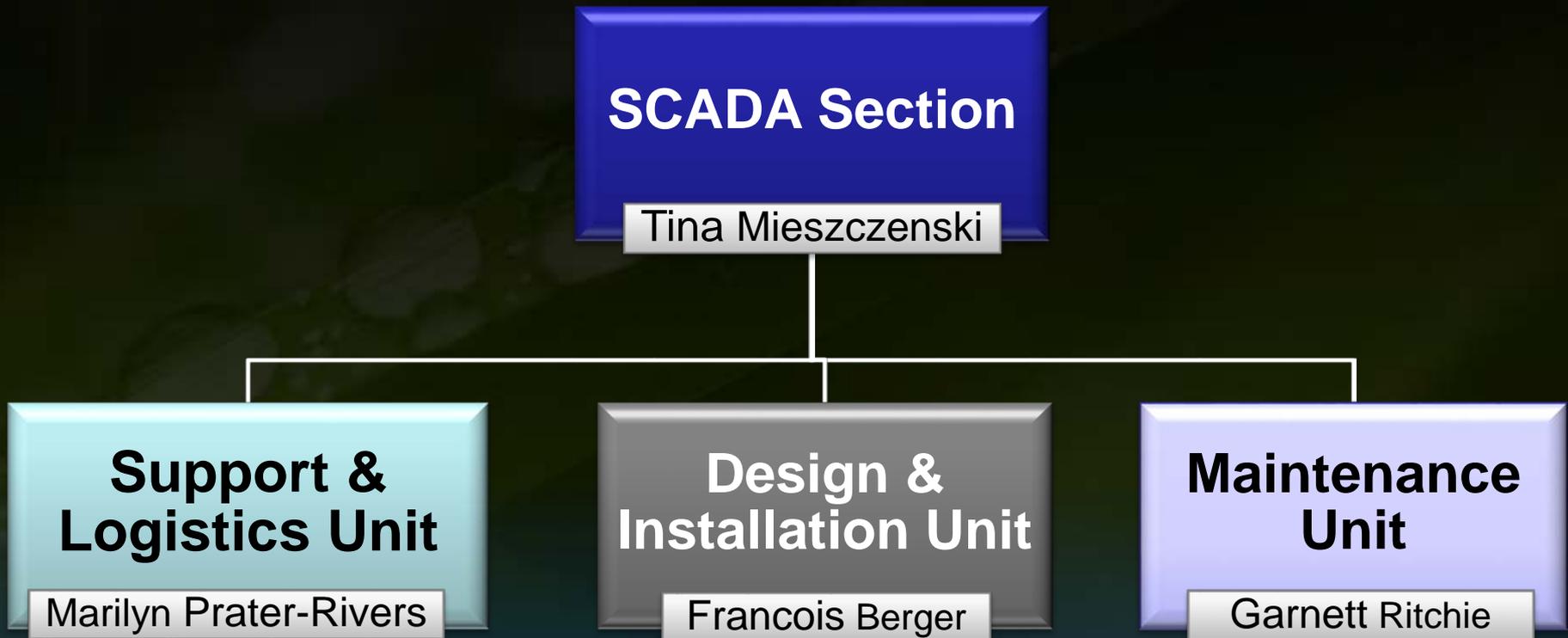




SCADA Overview

Supervisory Control and Data Acquisition

SCADA Section – Units & Supervisors



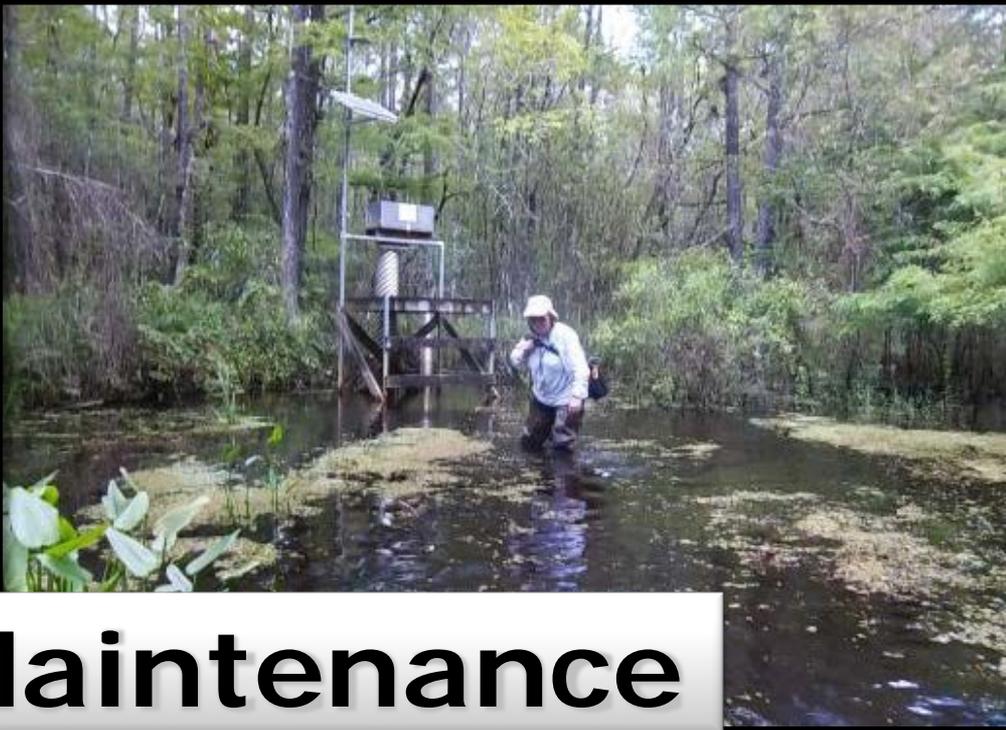
SCADA Maintenance Unit

Garnett Ritchie



- **Preventative Maintenance** of variety of Remote Terminal Units (RTUs) and associated hardware and accessories.
- **Repairs:** Break-fix services 24/7, 365, including emergency repairs, to provide uninterrupted performance of the SCADA system on nearly 1,200 sites.
- Sites are comprised of Campbell Scientific and Motorola RTUs throughout sixteen counties.





SCADA Maintenance

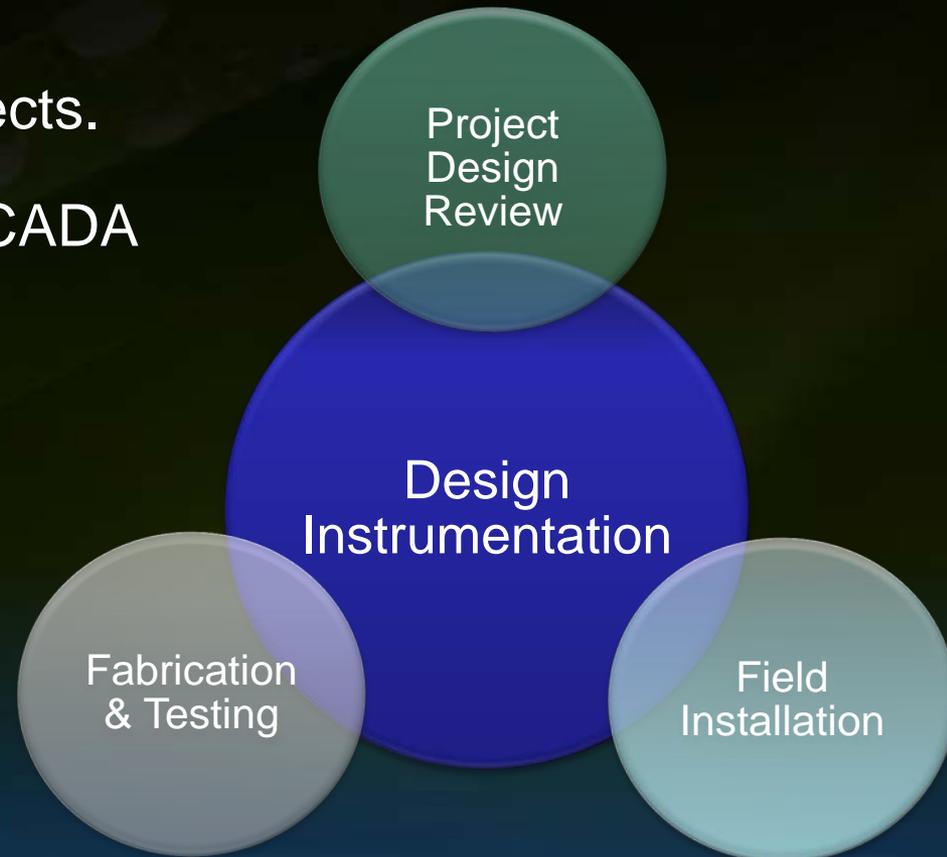


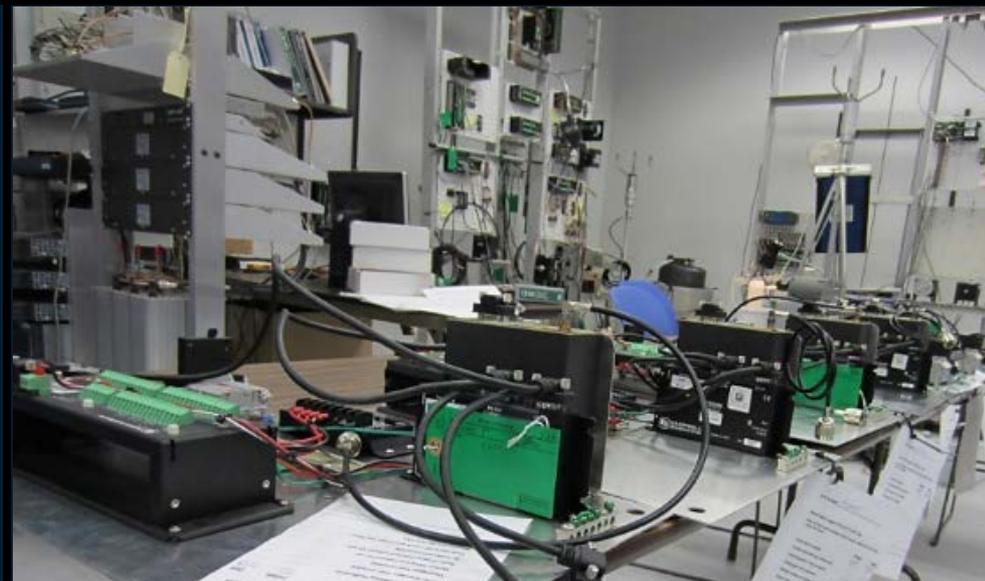
Design & Installation Unit

François Berger



- Design all new SCADA sites.
- Manage new installations and upgrades of SCADA related projects.
- Research and development of SCADA instrumentation.
- Fabricate and test SCADA instrumentation panels.
- Document and maintain standards.





SCADA Design & Installation



Support & Logistics Unit

Marilyn Prater-Rivers

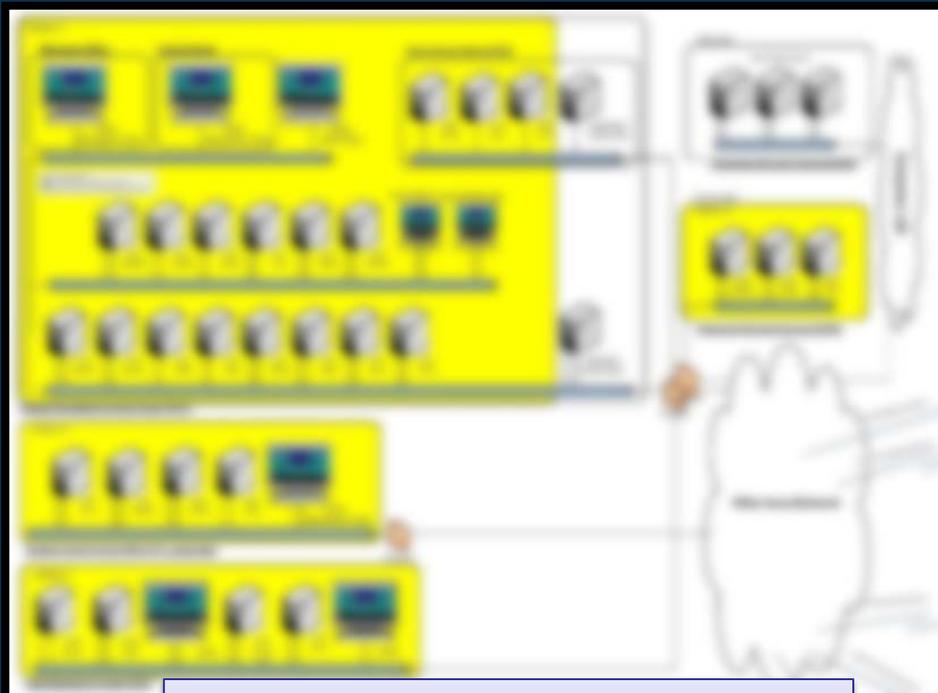


- Supports the SCADA Section
 - Planning and Scheduling
 - Reporting (Budget, Plant Maintenance)
 - Warehouse (Inventory, Asset Management, Purchasing)

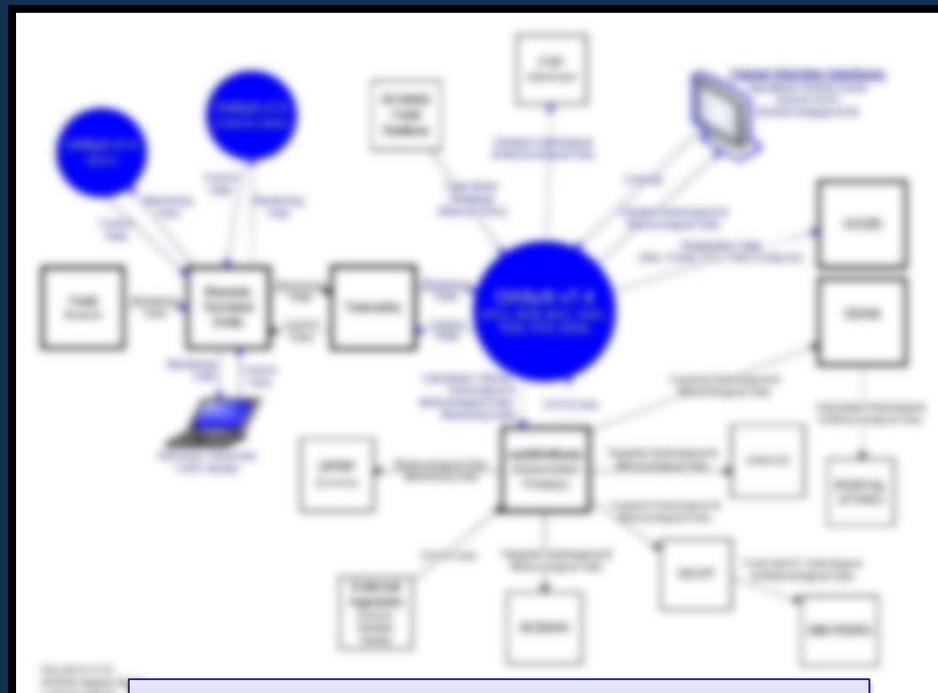


SCADA Complexity

- Multiple groups at the District support the system as a whole.
- SCADA works closely with the control room and several groups within IT for the functioning of telemetry sites.



SCADA System Architecture
Main application support at HQ



SCADA OASyS Data Flow
Data flow from field to databases

SCADA Complexity (continued)

RTU Technology: Motorola for real time applications and control sites;
Campbell Scientific for data collection using LoggerNet servers.

Campbell RTUs,
communication path
to central system

Motorola RTUs,
communication path
to central system

