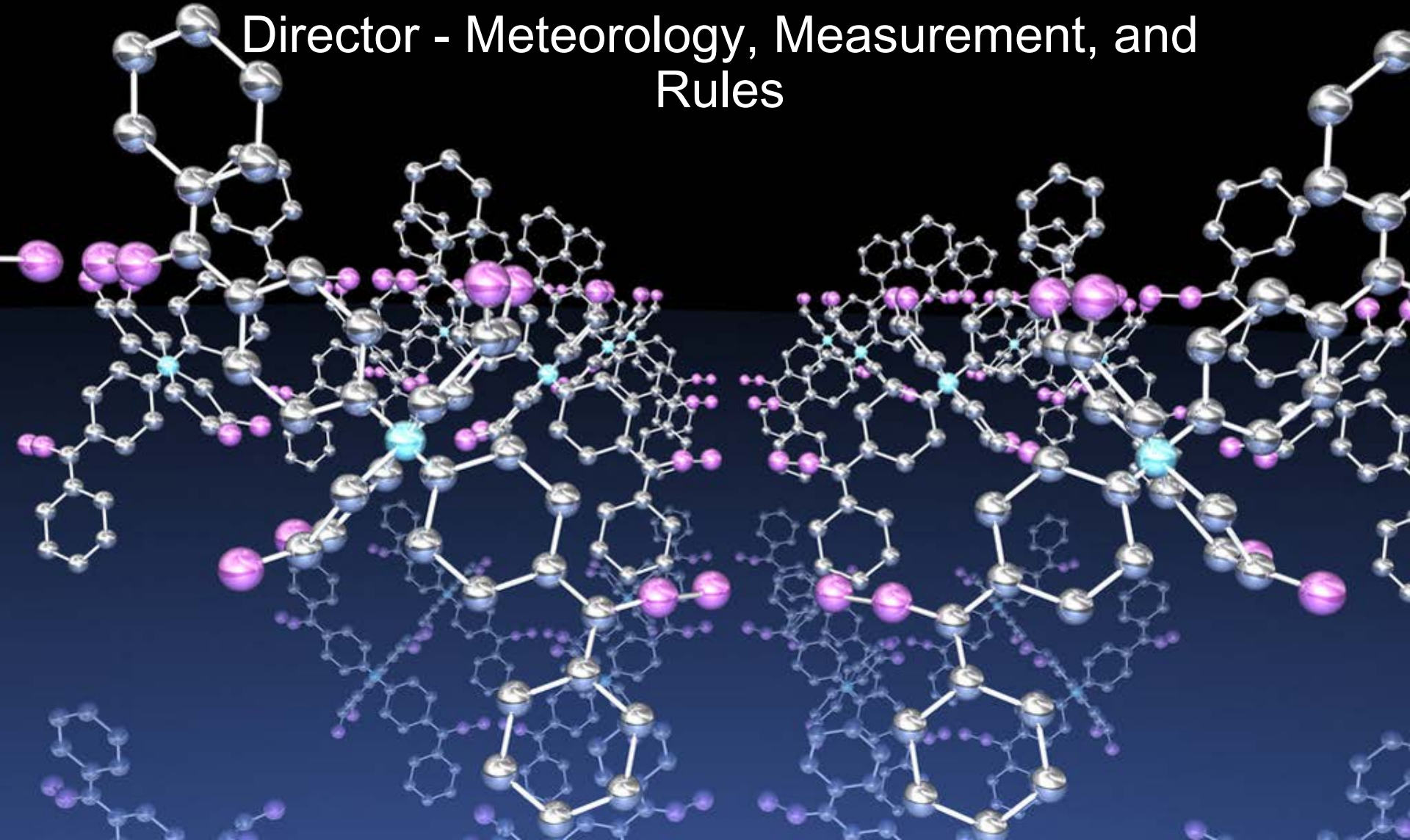


Station Operations - Overview

Eric Stevenson

Director - Meteorology, Measurement, and
Rules



What am I going to Talk About

- It All About the Data
- Quality System
- Fundamentals
- Develop Your Skillset
- Communicate
- Documentation
- Troubleshooting



It's All About the Data

- Your data is used to inform/develop policy and determine outcomes
 - It must be defensible
 - It must meet regulatory requirements
 - It must be well documented
- It all starts with training and a well developed Quality System



What is a Quality System

- A means to ensure all data are comparable, consistent and useful to be used for appropriate decision making
 - **Standard** Operating Procedures and documentation
 - Data Quality Objectives/Indicators
 - How are problems identified and corrected
- Understanding the Quality System is critical to organizational goals

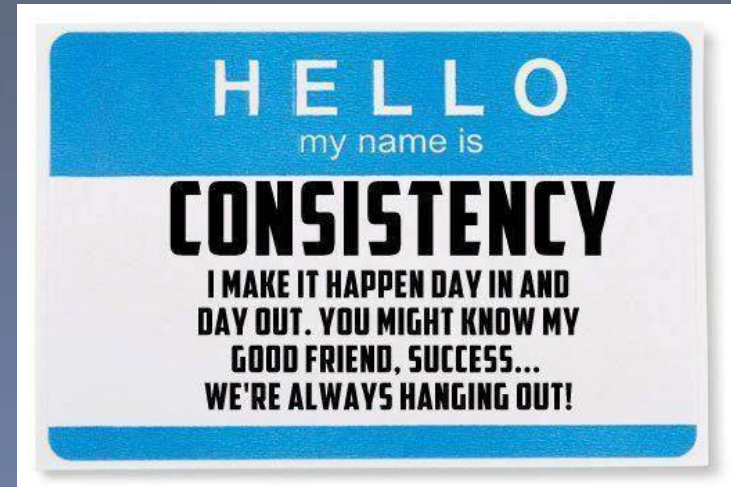
Fundamentals of Station Ops

THE FUNDAMENTALS

- Consistency
 - Develop a process
- Attention to detail
 - Equipment and surroundings
- Anticipate problems (don't just react)
 - Develop a strategy
- Understand the goal of the data being generated
 - Determine appropriate viewpoint

Consistency

- Routine procedures
 - What happened while I was gone?
- *Understanding* the data
 - What are normal patterns?
 - Why are variations occurring?
- Data generation
 - When should I take action?
- Data review
 - How do I inform others?



Attention to Detail

- Know your equipment
 - What are the weaknesses?
 - How are weaknesses overcome?
- Know the affects of outside influences
 - Calibrations
 - Station conditions
 - The world outside
- Discuss issues with others



Anticipate Problems

- Metadata is your friend
- Know when things are degrading
 - Equipment and surroundings
- Spare parts and consumables
- Verify that a potential problem exists
- Develop a path forward
- Limit the number of variables and identify the potential source

Understand the Goal

- What are *appropriate* DQOs/DQIs?
- How does error enter into the conversation?
- Where is the forest and what are the trees?
- Assist others/develop expertise
 - You are the measurement experts
 - Ask questions
 - Know what your data is being used for
 - Develop an understanding of the process

“ A GOAL
WITHOUT
A PLAN
IS JUST
A WISH ”

AS

Develop Your Skillset

- Understand why the process is what it is
- Take advantage of downtime and others expertise
- Set goals/work with others
- Get training
 - Expand your areas of expertise
 - Take advantage of technology
- Be an advocate for appropriate data collection



Opportunities to Communicate

- Data review
 - Why were actions taken?
- Annual Network Plans
 - Why are you asking me these questions?
 - Know the regulations
- Audits
 - Work as a team
 - What is the “truth”
- Training events and conference calls



Documentation

- Weight of evidence
 - What do I need to “prove” that data are valid?
- Timely notetaking
 - When will the questions be asked?
- What is necessary?
 - Develop your process
- Can you follow a data point?

Troubleshooting

- Timing
- Develop a plan
- One variable at a time
- Talk with others
- Is the issue really solved?
- Verify that the issue is solved
- Is everything back to normal?



Troubleshooting

Questions and thank you!

