



# AMERICAN GOVERNOR

## GOVERNOR SCHOOL 2012

### A Three-Day Technical Workshop on Hydro Governors

Whether you are an **experienced governor technician** or an **apprentice**, this intensive technical workshop will expand your knowledge of governors and refine your skills with a combination of classroom and hands-on training sessions. Here's a snapshot of a recent class



**Governor School 2012** will be held June 12– 14 near **Stevens Point WI**. Our training sessions start with the basics and go all the way through detailed diagnostics and troubleshooting. We cover **all types of Woodward governors**, from **mechanical** to **analog** to **digital**, and our trainers, many with decades of field experience, are the best you'll find anywhere. The **technical workshop format** of our School makes this your best training choice for refreshing your maintenance skills or learning governors from scratch.

Unlike textbook-only classes, AGC Governor Schools include plenty of hands-on sessions with live equipment. Our trainers have decades of experience building, calibrating and repairing governors, oil systems and auxiliaries. Our **Training Center** features **complete working examples** of Gateshaft and Mechanical Cabinet Actuator governors, a 20 Series Pump, plus an Analog Mod II test stand and many unique and instructive **cutaway** governor systems and assemblies. Our **Turbine Simulator** and new **Dashpot Lab** add a new dimension to hands-on training.

#### Training will be offered on the following topics:

Gateshaft Governors	Mechanical Cabinet Actuators	Analog Electric (Mod II)
20 Series Gear Pumps	Theory of Operation	XX Herringbone Gear Pumps
PMGs and SSGs	Governor Auxiliary Devices	Pump Unloader Systems
Auxiliary Speed Switches	Pelton Governor Systems	Digital Governors (PLC)

**Hands-on sessions** are offered for many of the topics above, and some sessions are repeated so you can "mix 'n match" according to your needs and preferences. For example, supervisors may wish to attend a variety of classroom sessions, while technicians may prefer to repeat some of the hands-on sessions to reinforce their knowledge. **Breakout** sessions are offered for additional topics of special interest, based on attendee input to our survey.

**Prospective attendees are encouraged to register early!** This workshop is expected to sell out, and attendance is limited. **Early Bird registration fee** of **\$1,895 (early bird)** applies to firm registrations received before **April 1st**, and **group discounts** are available.

**To reserve your seat**, download a registration form from [www.americangovernor.com](http://www.americangovernor.com) or call **215-354-1144**. You can fax your completed form to **215-354-1782** or email it to [school@americangovernor.com](mailto:school@americangovernor.com). We're sure you will agree with a past attendee who said:

"This is **the best bang-for-the-buck** of any training class I have attended in years!"

#### WHO SHOULD ATTEND:

MECHANICS  
ELECTRICIANS  
ENGINEERS  
OPERATORS  
SUPERVISORS

#### WHAT YOU WILL LEARN:

GOVERNOR THEORY  
GOVERNOR OPERATION  
TROUBLESHOOTING  
CALIBRATION  
GOVERNOR AUXILIARIES  
HYDRAULIC SYSTEMS  
PERFORMANCE TESTING

#### WOODWARD GOVERNOR TYPES COVERED:

GATESHAFT  
MECHANICAL CABINET  
ANALOG (MOD I & II)  
DIGITAL  
(501, 505H, 517,  
723H, MicroNet™,  
and Atlas™)

# ***Governor School: Hands-On Sessions***



*AGC Governor Repair and Training Facility in Amherst, WI*



*Jerry Runyan discussing governor concepts*



*Chuck Stanley operating full-size Cabinet Actuator Test System*



*Mike Mato providing guidance on proper flyball reassembly*



*Attendees calibrating dashpots in our Dashpot Lab*

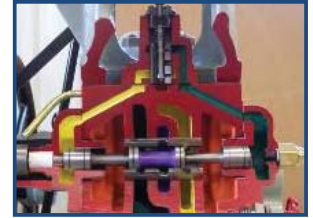
# ***Governor School: Classroom and Hands-On Sessions***



*Pig Roast*



*Jerry Runyan presenting the popular "Governor 101" class*



*Valve Cutaway*



*PMG Cutaway*



*Ballhead Cutaway*



*Chris Crider demonstrating Gateshaft disassembly*



*Gary Rosenberger describing Digital governor components*



*Joe Pottratz and Kirk Schield disassembling a XX Pump*



*Mike Mato demonstrating governor adjustments*



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## Governor School Trainers

### **Jerry Runyan**

Jerry served Woodward for 42 years, in just about every area: Production, Field Service, Commissioning Engineer, Design Engineer, Marketing and Governor Training. He is experienced with all types of Woodward governors - from mechanical to digital - and has conducted over 100 training classes. Jerry is also fluent in Pelton, Allis-Chalmers, and Voith governor calibration and tuning.

### **Rick Sheldon**

Rick served Woodward for 20 years in a variety of Production, Field Service and Commissioning positions, finishing up his Woodward career as Aftermarket Parts and Service Manager. He runs our Amherst Repair and Training Facility and has an amazing memory for Woodward part numbers. Rick specializes in mechanical and analog governors.

### **Greg Yohe**

Greg has many years of experience with hydro governors and controls, including five years at Voith Hydro where he was responsible for testing and commissioning digital governors, HMs and plant control systems.

### **John Elliott**

John worked in Woodward's hydro division for 20 years, performing commissioning and field service duties as well as application engineering. He specializes in field service and training for mechanical and analog governors.

### **Joe Pottratz**

Joe served Woodward for 25 years in various positions, eventually becoming their XX Herringbone Specialist. He built the last XX pump Woodward sold and has overhauled many XX and 20 Series pumps.

### **Kirk Schield**

Kirk served Woodward for 12 years in Production and as a Customer Service Specialist. He specializes in Permanent Magnet Generators, Speed Signal Generators, XX Herringbone pumps and 20 Series pumps.

### **Dan Berrien**

Dan has over 16 years of combined Woodward Governor and PLC experience. Dan has commissioned or serviced all types of Woodward digital governors as well as dozens of digital PLC governors. Dan is a Professional Engineer and serves as AGC Engineering Manager. He is fluent in programming Allen-Bradley and GE Fanuc PLCs and has developed several unique algorithms for unit and plant control.

### **Bill Eberman**

Bill has over 40 years of experience in the hydro industry. He served Voith Hydro for 10 years as an Application Engineer, Commissioning Engineer and Regional Manager. At Woodward he served for 18 years in Production, Field Service and as a Project Manager and Business Unit Manager. Before that, he provided field service for BLH-Pelton governors for 8 years at the Cheston Company. Bill's expertise spans the entire range of governor systems: mechanical, analog and digital, and includes retrofit hydraulic system designs.

### **Matt Roberts**

Matt is an accomplished Project Engineer and Field Service / Commissioning Engineer. He has worked with hydro governors and control systems for five years and has been directly involved in the design, construction, testing and/or commissioning of over a dozen digital governor systems. He also designed and commissioned the new Pressure Reducing Valve control system for the Bureau's Hoover project. Matt specializes in digital governor system engineering, PLC programming, field service and training.

### **Mike Mato**

Mike has over 35 years of hydro experience. During this time he supervised major construction and maintenance projects for Pacific Gas & Electric, including their Helms pumped storage plant. For the last 14 years he served as a Power Generation Specialist and his responsibilities included providing governor support and coordinating governor training for the utility's 71 hydroelectric plants. Mike specializes in Woodward and Pelton mechanical governors.

### **Additional featured trainers:**

**Gary Rosenberger, Chris Crider and Mike Lassa**

## Testimonials

**"Excellent hands-on training and facility. Staff is truly a credit to the success of American Governor!"**

**"We really appreciate that there are still dedicated people out there to help after these big companies have disappeared. Most of our 'old timer' plant superintendents have also disappeared, taking a lot of our governor expertise with them."**

**"Great training environment. Instructors very knowledgeable and personable."**

**"Your cutaway models are great! Showing how all parts go together is great information."**

**"Entire staff was excellent, true technical experts within the industry."**

**"I feel more comfortable working with governors now. Thanks for the knowledge and hospitality."**

**"You were all really willing to help out... even after class, on your own time."**

**"The shop presentations were great, thanks for all the hard work getting ready."**

**"All of your staff are so friendly, knowledgeable and helpful. Their enthusiasm is contagious."**

**"American Governor did a great job presenting themselves and really convinced me of their quality and dedication. Friendly and knowledgeable staff. Good job, I learned a lot."**

**"Best, most useful, most in depth class I've had."**

For more information, visit us on-line:



[AmericanGovernor.com](http://AmericanGovernor.com)