

AIO Mid-Year Seminar
Electricity in Organbuilding
October 13 & 14, 2016

Presenters:

Dick Houghton
Bob Rusczyk

Parsons Staff

Matt Parsons
Autumn Coe
Peter Geise
Aaron Grabowski



Location

Parsons Pipe Organ Builders
4820 Bristol Valley Road (Route 64S)
Canandaigua, NY 14424

Site Visit: United Church, Canandaigua, Parsons Opus 41, 2014
tour organ, lecture and organ demo

Seminar begins Thursday, October 13th at 8:00 AM and ends Friday, October 14th at 5:00 PM.
Participants should plan to arrive Wednesday evening and depart late Friday or early Saturday.

Maximum number of participants: 20

Registration Fee: AIO Member - \$395.00 and Non-Member - \$435.00

- There will be hands-on demonstrations and plenty of handouts.

The registration fee includes:

- Thursday lunch & dinner
- Friday lunch

Note: If you plan to arrive in time for dinner on Wednesday or plan to stay for dinner on Friday, please indicate this on the registration form. We will make group arrangements for those who attend, but dinner is Dutch treat.

Hotel rooms can be reserved using the Code **AIO SEMINAR** at:

Holiday Inn Express - Canandaigua

330 Eastern Blvd

Canandaigua, NY 14424

585-396-3669 or Fax: 585-393-0669

hieguestservicescdga@gmail.com

Discount rate for AIO: \$99/night + tax (*includes complimentary continental breakfast*)

(Hotel is 11 miles from Parsons Shop, approximately 15 minutes)

Nearest major airport: **Great Rochester International (ROC)** - (34 miles from Parsons Shop, approximately 45 minutes). There is an Amtrak Station in Rochester, NY

Registration deadline: September 8, 2016

Program Topics include:

1. **NEC Review**
In practical terms: What you need to know and why. How to comply in terms of wire sizing and fusing. Understanding when to replace old cables.
2. **Basic Electricity: topics covered in the AIO Exam**
Review Ohm's Law. Calculating wattage, current consumption, resistance and voltage drops. Identifying resistors, diodes, capacitors, IC chips and transistors.
3. **Power Supplies**
Review junctions for + & - distribution, wiring in parallel and calculations for proper sizing.
4. **Wire**
Review calculating wire sizes, common returns, voltage drops and conductor resistance.
5. **Proper fusing**
Review calculations for various types of magnets, techniques and products for practical fusing.
6. **Wiring Techniques**
Review of proper techniques for neat and trouble-free wiring including cable protection, use of proper tools for wire stripping and rules for good soldering. Proper documentation and wiring charts.
7. **Troubleshooting solid State Control Systems**
Using a meter - analog versus digital, Positive versus Negative returns and a discussion of basic troubleshooting requirements for various solid state vendors (to be determined).
8. **Working with CEO's - Code Enforcement Officers**
Planning ahead for organ connections to be completed prior to the delivery of the organ; twist lock receptacles for blowers and power supplies; and enclosures.
9. **High Voltage Wiring**
Review of 3phase wiring, changing direction of the motor, inspecting motors for age and wear. Using a Frequency drive to control motor speed and protecting the motor. How to service Brush motors.
10. **Specifications for the church**
What to tell the church in order to prepare for the organ in terms of electrical power, chamber preparations, lighting protection (techniques, equipment and grounding).
11. **Organ environmental conditioning**
HVAC, Micro-climate systems, air circulation and humidification.

Site Visit - United Church - Canadaigua
Parsons Opus 41, 2014
Organ Tour
Organ Demonstration

Electricity in Organbuilding Seminar

October 13 & 14, 2016

Name (as it will appear on your name badge) _____

Company _____

Address _____

Phone Number _____ Work _____

Email _____

Payment

Check: Check Number: _____

Credit Card: (Please circle one) Visa MasterCard

Name as it appears on your credit card: _____

Credit Card Number _____

Expiration Date: _____ CSV: _____

Billing Address: _____

Please contact the hotel directly to make your reservation:

Holiday Inn Express - Canandaigua

330 Eastern Blvd Canandaigua, NY 14424

585-396-3669 or Fax: 585-393-0669

hieguestservicescdga@gmail.com

Discount rate for AIO: \$99/night + tax

(includes complimentary continental breakfast)

Additional Arrival Information

_____ plan to arrive on Wednesday for dinner _____ plan to stay for dinner on Friday evening

I agree not to hold the seminar hosts or the American Institute of Organbuilders liable for any personal injury claims resulting from this seminar.

Signature

Print Name

Date

Please return this form to: **Robert Sullivan, PO Box 35306, Canton, OH 44735**
or by e-mail: **robert_sullivan@pipeorgan.org**