

University of Michigan Radiation Weather Station

Professor K. J. Kearfott, Radiological Health Engineering Laboratory Department of Nuclear Engineering and Radiological Sciences



Goals

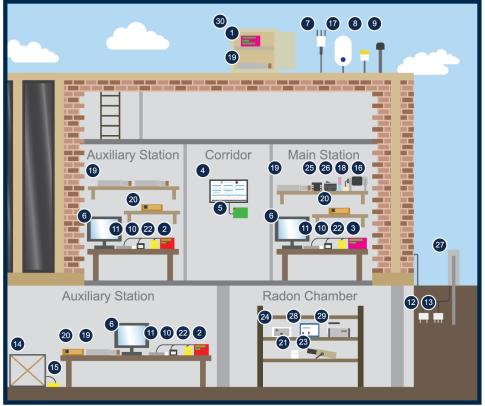
- Educate the public on climate and radiation issues;
- Interest high school students in science, technology, engineering and math;
- Provide undergraduate research experiences;
- Recruit undergraduate students to environmental, nuclear, radiation protection, and homeland security fields;
- Serve as an independent source of quality radiation measurements for both normal background and radiological events

2017 Team

Undergraduates:
Marco Carmona, Long Kiu Chung,
Issa El-Amir, Jordan Noey, James
Seekamp, Jeffrey Xiao, Fangbo
Yuan

Contributing Researcher:
Angela Difulvio

Supporting Staff: Rodney Capps, Mark Matusko, Jeff Weatherup





●Campbell Scientific CR100 Datalogger with C107 Temperature Probe ●Campbell Scientific CR300 Datalogger ●Campbell Scientific CR800 Data Logger ●Sony KDL40W600B Monitor ●Raspberry Pi 3 Model B ●Generic Windows Computer ●Vaisala WXT520 Weather Station ●Texas Electronics TR-525USW Precipitation Gauge with HT-525 Heater ●Apogee Instruments SP-230 Pyranometer ● Campbell Scientific CS100 Barometric Pressure Sensor ● Campbell Scientific CS215 Temperature/Rel. Humidity Sensor ● Decagon GS1 Soil Moisture Sensor ● Decagon GS3 Soil Moisture, Temperature, and Electrical Conductivity Sensor ● Antenna ● Super SID Solar Flare Detector ● Eljen Technologies 5×5 EJ-309 Neutron Detector with Avicenna RX1200 Digitizer ● GE Reuter-Stokes RSDetection Environmental Radiation Monitor ● Avicenna RX1200 Digital Spectrometer ● Bicron ZX4H16/2SS Nal Radiation Detector ● MMCA or Other MCA ●● Rexon RB-210 PMT High Voltage and Preamplifier ●● Radonitor ●● Safety Associates MMCA Multichannel Analyzer ● Radon FTLab Radon Sensor ● Radon FTLab RD200 Radon Sensor ● Pylon AB-5 Radon Monitor ●● Surnidge RAD7 Radon Monitor (L) with Drierite Drying Stick (R) ● AMS Radon Soil Probe inside Soil Sensor Box ● Femotech CRMS-10-LP Radon Monitor ● Saphymo AlphaGuard Radon Monitor ● American Products AM-462418-24RU 46"×24"×18" Minifort



