COURSE DESCRIPTIONS
ARES State Conference
January 2018

2018 Georgia State Amateur Radio Emergency Service Annual Meeting

	AUDITORIUM	CONFERENCE BAY A	ROOM 101	ROOM 103	ROOM 104	ROOM 106	ROOM 108	LUNCH AREA
0900	REGISTRATION							
0930	EVERYONE							
1000	Advanced Storm Spotter Session 1	Intro to Hosp Ops	Deployment Basics Session 1	ICS Forms Session 1	PSK Session 1	Winlink Session 1	First Aid Session 1	
1030								
1100		Hosp GHA911/WebEOC	Mutual Aid	ICS Forms Session 2				
1130								ARRL
1200	Advanced Storm Spotter Session 2					Winlink Session 2	Drats Session 1	
1230								
1300								
1330		Winlink for Hosp Comm	Emergency Power Session 1 Session 1	ICS Forms Session 3	PSK Session 2		Drats Session 2	
1400								
1430						First Aid Session 2		
1500		HIPAA for Hosp Ops	Emergency Power Session 2	Deployment Basics Session 2			Digital Q & A Follow up	
1530								
1600	EVERYONE							
1630	Drive SAFELY							

Notations:
[1] Some classes have the same name followed by a session number. The number indicates it is the second or third offering of the ***same*** class and not an advanced class over the previous number.

[2] For hospital operators, if you are new or have limited experience with Winlink, it is recommended that you take the Winlink Session 1 or 2 class *before* taking the Winlink for Hospital Communications (at1:30pm) in the Hospital Operators' track.

Advanced Storm Spotter Training - In this class, we will build on the fundamentals learned in Basic Storm Spotter training. The topics include:

1. A brief review of thunderstorm anatomy and reportable weather phenomena.
2. Advantages and limitations of the dual-polarization Doppler weather radar.
   a. Comparisons of velocity and reflectivity in storm systems
3. Winter weather products
4. Severe weather products to include a discussion of what is included in warning statements.
   a. Addition of impact statements.
5. Other weather products (SWS, SPS, FLW, FFW) and when they are issued.
6. Q&A.

First Aid - Hams support hundreds of public service events across Georgia every year. It is not uncommon to encounter events that require not only our communications capability, but an understanding of how to respond to varying degrees of distress or injury. Would you know what to do if you encounter seizures, concussions, fractures, hypo and hyperthermia, road rash, cuts, poisoning (thought a packet of sunscreen was a power gel), sprains, strains, dehydration, and altered mental state. The 2017 Peachtree Road Race had an individual suffer a heart attack just shy of the finish line. First aid will not make you an EMT! It will teach you the proper response to various incidents you will encounter in public service events. You will learn the latest guidance and the dos and don'ts of various situations from qualified medical instructor(s).

Introduction to Hospital Operations - This class is designed for all operators and will review the Hospital Emergency Operations Plan. Whether a seasoned operator or a new HAM, this course is mandatory for serving as a hospital operator. Specific areas included are; deployment & activation,

situational awareness, presentation, the ICS structure and how we fit in, modes and methods of communicating traffic and information, deactivation and personal issues. This course will be taught by Bret Smith W4HBS and Steve Jonas K4SDJ.

Mutual Aid - This presentation will share the ARES *Mutual Assistance Team* (MAT) concept and its mission. The discussion will focus on the mindset, mission, example scenarios, and requirements necessary to qualify as a candidate for ARESMAT. MAT is a quick-response team that stands up core communication assets to and from areas or incidents that need supplemental emergency communications support giving standard Amateur emergency communications time to organize follow-on operations. That activity, when requested, can be associated with supporting the State of Georgia's SOC, a region of the State, down to the county or city level, events such as Hurricane Irma, and potentially out of State incidents. Team focus is centered on operation from the SOC and the field. The presentation's purpose is to inform interested ARES members who may want to consider participation in the program.

Navigating and Using WebEOC - This class is for all operators and will cover how to navigate and use the GHA911/WebEOC system for situational awareness as well as reporting status updates. We will demonstrate a simulated "disaster" and how operators can work as a team to give status updates for mutual support. The class will be taught by Yusuf Rahman, GHA Project Manager for the Georgia Hospital Association.

Using Winlink Express for Hospital Communications - This will be an "advanced" class for all operators with a working knowledge of Winlink and its various modes (Winmor, Winmor P2P, Packet, Packet P2P, and Pactor). We will demonstrate utilizing templates for ICS forms (IC-213, IC-205, IC-205a and IC-309), completion of the forms and transmitting. We will discuss other requirements for message transmission and how operators can utilize the Winlink Express suite for various tasks. A fundamental knowledge of Winlink Express is strongly recommended. This course will be taught by John Davis WB4QDX. *Please note that if you are new to Winlink or you have limited experience operating Winlink using using a radio to send messages, it is highly recommended that you take the Winlink Sessions (1 or 2) that take place before this class time. See the course description for "Winlink" listed later in this document*.

Understanding the HIPAA Privacy Rule - All hospitals are required to protect patient protected information (PPI) even during disasters. Hospital Operators are also required to understand and comply with this rule. The Health Insurance Portability and Accountability Act (HIPAA) is universal and carries severe penalties for hospitals and healthcare institutions in the event of a data breach. This course will provide an overview of protected information as well as non-protected information. Attendees will leave with a clear understanding of what can be transmitted and what cannot. This course will be taught by Michael Patterson KM4HDS, RN, EMHP and Director of Emergency Services, Fannin Regional Hospital.

Emergency Power - This session will cover many aspects of emergency power including power needs, power conservation, generators (safety, selection, maintenance), fuel (safety, types, storage), batteries (sizing, types, charging, maintenance, voltage boosters), solar (types, efficiency), and do-it-yourself projects.

Deployment Basics – This course introduces you to the ARES Mutual Aid Team (ARES-MAT). We will cover what ARES MAT is, when and where we deploy, equipment requirements, personal

requirements, working with your local district or county, and how to become a member of the MAT team.

Winlink – Winlink (also known as Winlink 2000) is a worldwide radio messaging system that uses amateur-band radio frequencies to provide radio interconnection services that include email with attachments, forms, position reporting, weather bulletins, emergency relief communications, and message relay. As one of the three Amateur Radio data applications used in Georgia ARES, it provides email capabilities to other Amateur stations as well as standard Internet email accounts using a worldwide message servers around the world for redundancy. Winlink can be used on VHF, UHF and HF frequencies using several transmission modes. The class will provide instruction on how to install, setup and operate a Winlink station to send and receive messages using radio or Internet connections to provide a valuable tool for emergency communications.

PSK – Phase Shift Keying (PSK) is a valuable mode for emergency communications. Using the NBEMS suite of tools including FLDIGI over PSK, it allows amateur radio operators to reliably send and receive data using nearly any computer and any analog radio without requiring a dedicated digital infrastructure or specialized modem hardware. Using various modes. PSK modes allow for keyboard-to-keyboard communications as well as a wide variety of messages including ICS and ARRL forms. PSK modes can operate VHF, UHF both simplex and through repeaters as well as HF modes. The class will provide hands-on instruction to install, setup and operate using the NBEMS suite of programs and the use of common forms used by Georgia ARES and served agencies.

D-RATS – Originally developed for data messaging over D-STAR radios, D-RATS provides chat, messaging, file transfer , position reporting and forms over D-STAR radios and Internet connections. Using the extensive Georgia network of D-STAR repeaters and reflectors, D-RATS provides a valuable EMCOMM tool for data. The class will provide instruction in installation, configuration and use of D-RATS over a D-STAR radio or an Internet connection.

ICS Forms – This course is taught by GEMA and will prepare the individual in properly filling out and using certain ICS forms. Some of the forms include: ICS 204, 205, 211, 217, 221, and 309. Recent experience working in the State Operations Center during Hurricane Irma, indicates a need to become proficient using these forms if ARES is to function alongside GEMA during a crisis.

ARRL – There will be a table set up with ARRL information.

What if I don't get into a class and have free time? The best thing to do is what we always do – communicate. Small group discussion has ALWAYS been encouraged at these meetings and is often highly beneficial. Go to the lunch area and talk with your fellow Hams and members of the Emergency Management community. Share your ideas, experiences, concerns, and questions with others. Expand your network of contacts. Depending on the timing, you can grab a snack or lunch. There is always something to do.