

Cleveland, Ohio Artificial High Directional Workshop

August 15—21, 2020



Featuring the Arizona Vortex extensively

Ropes That Rescue is proud to announce the very first Ohio ARTIFICIAL HIGH DIRECTIONAL WORKSHOP. Space is very limited in this program and we are only taking the first 12 applicants who have fully registered. Tuition: \$1,350. Registration for this program is through Ropes That Rescue in Arizona. See Application for details.



Glenn Research Center NASA

The industrial venues for the AHDW are by far THE BEST ever! Liaison Brian Harting of Northeast Ohio Region Two USAR Task Force has done a stellar job of obtaining our multiple rope rescue training sites for this extensive workshop. Brian coordinates the dates each year for this program with the Progressive Field (home to the Cleveland Indians) so that we can have a few days to use the stadium. We are also sometimes able to use the Glenn Research Center at NASA (you must be US citizen to gain access to NASA). Also we try and get out to the Holden Arboretum which is a huge wooden viewing platform rising above the forest canopy.

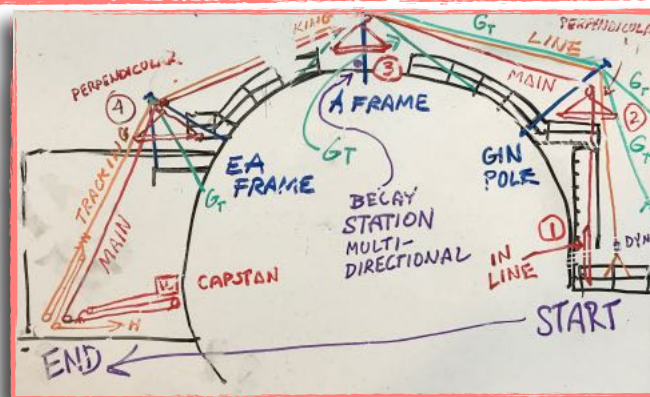
Extensive use of the Rock Exotica Arizona Vortex and Skyhook® Capstan Winch (if avail.) with both power head and cordless drill are realized in this frame-intensive workshop. Exercises involving cantilevered A frames, double A frames, and paradoxical luffing A frames along with winch rigging bipods and pods are all part of the AHDW at these venues in Cleveland. This, with the teaching of high angle offsets throughout the workshop, make this the industrial rescue program to attend.



RTR students for the Cleveland 2016 IRW lined up on top of the Progressive Field scoreboard

About the OHIO AHDW:

Recognizing the need for advanced-level train-the-trainer instruction on the use of any "artificial high directional" (AHD), RTR is offering the 7 day ARTIFICIAL HIGH DIRECTIONAL WORKSHOP suitable for fire emergency and rope access professionals. From Reed Thorne, the co-designer of the Arizona Vortex, this AHDW is meant to assist the rope rescue instructor with information relative to the use of manufactured high directionals. This program concentrates on constructed frames in general and is not intended to teach highlines, advanced pulley systems, or offsets (although some of these are touched upon). Physics, as it relates to



Another Vortex 3 frame NASA whiteboard drawing by Thorne

high directionals, is covered in the AZV User Manual and several lectures. The AHDW is a hands-on workshop on the use and correct implementation of the Arizona Vortex (AZV) for industry and wilderness settings. The AHDW is also well suited for teaching rope access professionals the benefits of constructed frames in their work.



VORTEX HISTORY:

The AZ Vortex (or AZV) is so named from its development in the rugged highlands of northern Arizona's Oak Creek Canyon through the rigging and rescue school, Ropes That Rescue. Reed Thorne, the school's owner developed the AZV with the help of Rock Thompson at Rock Exotica, in Utah in early 2003. The AZV was created from

years of trial and error and of having worked with crude but functional lashed wood frames at RTR. It represents the essence of at-the-edge frames which no standard tripod can match today.

The ARIZONA VORTEX is manufactured from T-6 aluminum by Thompson Manufacturing Inc. (Rock Exotica) in Clearfield, Utah and is one of the most versatile and state of the art artificial high directional (AHD) available to rescue and rope access in industry. With training from Ropes That Rescue (the "Arizona" designer), you may use this frame in a variety of ways and in any number of environments from industry to wilderness. It is ideal for confined space rescue, mine rescue, cliff rescue and industrial rescue. It is also well suited to bridge inspectors, rope access, the construction trades and the movie industry.

LIAISON for Ohio:

The Cleveland-based program liaison is Brian Harting at bharting.ohr2@gmail.com. Brian's cell is (440) 552-1134. He can answer questions about lodging, etc.

DISCOUNT ACCOMMODATIONS:

Ohio Liaison, Brian Harting has established the [Hyatt Place Cleveland/Independence](#) (in Independence, OH) as the discounted hotel for students to get their rooms for this training. Contact liaison Brian Harting to get the hotel discount code and make your reservation early. Rooms are harder to get the longer you wait.

Preparation for this program: TRY TO DO THIS!

Knots, bends and hitches are an integral part of every RTR program. You simply *cannot* be a good rigger without knowing extensive knotcraft —Pure and simple. To assist you in the mastery of these knots PRIOR to class we have assembled videos of Reed and son, Keith Thorne tying each one on camera with the help of Sequoia, the green-cheek conure.

Once you have registered for either program, you are invited to join our closed Facebook Page called “Arizona ART of Clean Rigging” for access to these videos. In this page (only open to past RTR alumni and current students) you will be able to watch all the knotcraft being performed. This will speed up the learning process during the classroom portion which will allow us to get to the field earlier. However, below is a short list of required knots....

NOTE concerning certain venues:

There are any number of good venues that are being sought for this AHDW and none of them are guaranteed to be available for our use.

RTR web site [APPLICATION: Click here](#)

Required [EQUIPMENT LIST: Click here](#)



2017 IRW: Progressive Field
two rope offset from
scoreboard

KNOTCRAFT to know for this Ropes That Rescue program (to get you started)

It is advised that you be familiar with some of the knots, bends and hitches we will be using in this workshop. It is always best to have some under your belt before arriving. Much of the workshop you are attending depends in large part on the roped and webbing connections YOU form! Don't worry so much at this time about the somewhat exotic knots like the retraced double bowline but concentrate on the easier figure of eights and simple bowlines. We will be going over many many different knots which are somewhat useful for rigging. Be prepared to tie some of these!

Here is a list to get you started:

- Figure of eight on a bight
- Butterfly knot
- Double overhand stopper
- Double overhand noose
- Inside bowline with retrace
- Bowline with a bight
- Doubled long tail bowline
- Bowline on a bight
- Water knot in webbing
- Water bend in webbing
- Munter hitch
- Clove hitch
- Becket Bend
- Double becket bend