



Mike Shy

Official Publication of
Society Radio Operators



Volume 77 Number 3 & 4

March - April 2017

The International Space Station

Thurs Apr 13th - 7:30 PM

Imagine you wake up in the morning, look out your window and see the vast blue horizon of Earth and the blackness of space. Our world stretches out beneath you. Mountains, lakes and oceans pass by in a beautiful stream of rapidly changing scenery as you orbit the Earth every 90 minutes. Sounds like something unreal out of a science fiction novel, right? For the crews of the International Space Station (ISS), it's a reality.



Soyuz, Undocking, Reentry and Landing



How does an astronaut return to Earth from the International Space Station? What does it feel like to re-enter the atmosphere? How does the Soyuz capsule function? Watch and find out.

This video is based on an actual lesson delivered to the ESA astronaut class of 2009 (also known as the #Shenanigans09) during their ESA Basic Training. It features interviews with astronauts who have flown on the Soyuz and dramatic footage of actual landings.

SRO Notes for February 10, 2017 (Or: A cold day in FebruaryÖ)

By Jim Hawes AA9DT



TONIGHT'S MEETING begins more with a whisper than a bang. We have a very intimate group tonight. But only in the sense that we few are sitting together in the corner of the big meeting room. It's a bit lonely. Only four of us showed up: Did the rest of you guys get the meeting notice? Maybe you're at the other Citadel: In the other Norridge. Here's hoping that your meeting's as entertaining as ours is.

TREASURER'S REPORT. According to Chamberlain Brost WA9FTS, we have sufficient funds to be here tonight. Details of our financial condition will be available to members who come to this Citadel next time. (At the doppelganger Citadel, you might hear a different tune. Do share it with us.)

TONIGHT'S PROGRAM is the documentary How We Got to Now: Cool, with host Steve Johnson. Mr. Johnson's program is the history of refrigeration and air conditioning. Johnson is talking about the marketing of ice from New England lakes. The idea was to transport the ice and cool off the South. The ice industry got under way in about 1805. Special ships would carry the ice. These ships had holds with layers of sawdust that surrounded each ice sheet. The sawdust served as insulation to keep the ice cold.

ONCE AN ICE SHIP arrived in port, insulated wagons transported the ice to ice houses. Double-wall insulation in these houses could keep an ice block solid for about six months. Later, home ice boxes appeared. Each one had a storage compartment in the top of the box. The iceman or homeowner would insert the ice block in this compartment. Food would rest on shelves below the block. The documentary traces how Frederic Tudor pioneered the ice trade in the mid-19th century. News of its success traveled around the world. In the 1840s, even Queen Victoria purchased New England ice.

FIRST REFRIGERATOR. In 1851, Dr. John Gorrie received a patent on the first mechanical refrigerator. Gorrie was a Floridian. His invention came into own in the Civil War south.

FROZEN FOOD. Clarence Birdseye applied refrigeration to frozen foods. He discovered a way to preserve foods without damage, despite freezing. Of course, transporting these frozen foods is a whole different problem. Fred Jones answered the call with his refrigerated truck technology, which he branded as Thermo King.

AIR CONDITIONING was another application of refrigeration. Probably Willis Carrier had the most impact on the expansion of AC. Starting in 1925, he installed his air conditioners in movie houses across America. AC expanded movie audiences and made auditoriums a place to frequent all summer long.

SKI DUBAI. One of the largest refrigerators in the world is in the United Arab Emirates. Ski Dubai contains the world's longest indoor ski slope. It's 1.2 km, or 0.745 miles long, all refrigerated, and all indoors! (That's one heck of a Kelvinator.) This despite Ski Dubai's location in one of the hottest places on earth. Insulation seals in the cold and bars the outside heat.

MOVING. Air conditioning also changed the country's demographics. The summer heat was no longer a deterrent to living in warm states. According to Johnson (in a specious thought), suddenly the South and West attracted Republicans! Johnson believes that this alleged influx of Republicans put Reagan in the White House. Hmm. Well, that's one theory. But why didn't Democrats also move south? Didn't politics, the campaign, the debates, and Reagan's personality have something to do with his win?

President's Message

With the successful supply launch of SpaceX reusable rocket ship to the ISS (International Space Station) for the second time I thought it might be interesting to view some videos taken from the interior of ISS.

I have some NASA videos of tours from within ISS, one of how it works and one of the Soyuz space capsule, the way astronauts go up and back to the ISS. If time is available I have some short video also.

I am looking for ideas for future club meetings on programs that would bring members to the meetings. All opinions are welcome as attendance has been sparse.

Next month some of us will be at the New Dayton Hamfest, in Xenia Ohio. I will bring back a report for the June meeting.

Speaking of June Field Day is June 24 and 25. If we have enough participants I can set up a location and station in Skokie. Anyone interested?

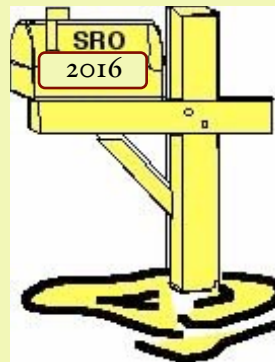
73 WA9EVF@ Comcast.net

Meeting Attendance



Regular Meeting - Feb 9th
Salvation Army - Norridge

Mike WA9EVF
Jim AA9DT
Jean KB9FXL
Mike WA9FTS



**If you move,
let the
Editor know
your new
mailing and
email
addresses. It
is our way of
getting Mike
Shy to you
each time.**

**CFMC Upcoming Regular Meetings - 16th District Police Station
5151 N Milwaukee Av, Chicago - Wed Apr 26th / May 24th - 7:30 PM**

Foxhunt Report



CFAR 2M Foxhunt - March 4th, 2017 by Mike WA9FTS
Fox - Matt KC9SEM, Patty N9PLS, Mike WA9FTS, Jacob, Mac

Matt suggested we try the Elgin area and see what we could find for a challenging spot. We looked at several areas around the intersection of Rt 31 and I-90. We found several good spots but settled on the area NW of the intersection. We got there off Rt 31 to Tollgate Rd and a driveway south and west to find a parking area next to a business. Early investigation of the restaurants in the area indicated Bennigan's would be the best choice as they were open until 1 AM. We backed in and put up a portable 3 el beam up around 17 ft. It was held up by small branches and bongie cords to a wooden fence. Matt brought his amps and we were set to give the hunters a strong 170w signal to the starting point. All 4 hunt teams heard us and the hunt was off at 8:03 PM. Using his map app on his phone, Matt figured it would take about 35 min to cover the distance to us for a perfect route. With the possibility of us being on any one of the four corners, I thought it would take at least an hour for 1st place to arrive. Finally we saw headlights in front of us and it was Janet driving in with John. It took him 1 hr 12 min. Marty arrived and was 2nd by only about 30 sec. Don pulled up in his Dodge Ram truck 21 min later. Tom indicated he was in the area. Since it was now 2 hours into the hunt, we changed antennas to a mag mount and put away the yagi in back of the truck and pulled out to Tollgate Rd. Tom arrived at 10:22 to end the hunt. We went to Bennigan's to join John, Janet and Marty. Results:

1. John WD9EXW, Janet - 9:15:00
2. Marty N9LTE - 9:15:30
3. Don W9RA - 9:36
4. Tom N9CBA - 10:22



Foxhunt Report



CFAR 2M Foxhunt - April 1st, 2017 by Mike WA9FTS Fox - John WD9EXW

Four hunt teams were at the starting point with Don W9RA hunting unofficially since he forgot his mobile antenna and went back to his house. He

started NE of O'Hare as the 4 headed out north. Tom and I took 290 NW and then north to Touhy. We got a strong signal indicating John was hiding somewhere on Old Higgins Rd. We were expecting lots of hunters to greet us as we got to the end of the road. We were the only ones! Tom and I took off into the woods next to a fence in which old carsd were on top of one another and a RR tracks next to the airport boundary. I ran past some cement slabs and thought it would be a good spot for John to hid. Tom was right behind me checking out the brush. I realized I went to far and came back to see Marty find John under the cement slabs with Tom grabbing 2nd - only a few seconds behind. Shortly Patty arrived with Pete scoring. Then Matt showed up with Jacob and Mac. A few minutes later Don asked where the restaurant was and the hunt was over. We went to Lou Malnati's on Higgins Rd. Results:

1. Marty N9LTE, Bill 2. Tom N9CBA, Mike WA9FTS
3. Patty N9PLS, Matt KC9SEM, Jacob, Mac
4. Pete K9PW, John K9JK Unoff DNF Don W9RA



Gorrie's Fridge



Portrait of our hero - Dr. John Gorrie.

Two faithfuls on their pilgrimage to the Gorrie Museum in Apalachicola, Florida.



The model of the original ice-making machine in the Gorrie Museum. The ice collects in the wooden box near the top.

The base of the ice machine. The larger cylinder contains the piston. Two wooden connecting rods are visible.



Clarence Birdseye Biography

Scientist, Inventor (1886–1956)

124
SHARES



Naturalist, inventor and businessman Clarence Birdseye pioneered the process of flash freezing in the United States. His company was bought by General Foods.

Synopsis

Clarence Birdseye was born in Brooklyn, New York, on December 9, 1886. In 1925, he unveiled his invention, the "Quick Freeze Machine." Four years later, he sold his company, the General Seafood Corporation, to General Foods, while staying on as a consultant. By the time he died on October 7, 1956, in New York City, he held roughly 300 patents and frozen food had become a billion-dollar industry.

Early Years

Inventor and businessman Clarence Birdseye was born in Brooklyn, New York, on December 9, 1886. From a young age, he was interested in botany and zoology. Birdseye enrolled at Amherst College with the goal of becoming a biologist. Unable to afford his tuition, circa 1910, Birdseye dropped out of school and took a job as a government field naturalist for the U.S. Biological Survey—while supplementing his income with fur trading.

Quick Freezing

In 1912, Birdseye set out on a five-year fur-trading expedition on the Canadian peninsula of Labrador. During his time in the Arctic, Birdseye observed that Eskimos froze food in the winter, due to the challenges of procuring fresh food. He was fascinated by their quick freezing process, which entailed using the elements—ice, wind and cold temperatures—to freeze freshly caught fish instantly. Birdseye noticed that when the fish was frozen quickly, it retained its freshness until it was thawed. Only small ice crystals formed on the fish, and its cell walls remained intact. With his scientific mind, Birdseye wondered how the quick freezing process might work on fresh vegetables and other foods.

Air Conditioning Comes To The Show

Air conditioning was born in 1902 when Willis Carrier, a mechanical engineer, developed and installed the first system in a publishing company in Brooklyn, New York. The Carrier

Engineering Corporation was formed in 1915 to manufacture and sell his new technology. Carrier's invention would eventually have a revolutionary impact on America.

Willis Carrier

The world without air conditioning was radically different from the one we experience today. For example, before air conditioning, the summer heat transformed Washington, DC into a virtual ghost town as politicians abandoned the nation's capital to escape its oppressive temperatures and humidity. The sizzling temperatures of cities such as Phoenix and Las Vegas inhibited their growth. The dripping heat of summers in the Deep South withered the enthusiasm of industries to locate there. Air conditioning changed all this.

The extraordinary influence of Carrier's invention on American society is illustrated by its introduction into movie theaters in the 1920s. The film industry had a problem. Summertime's hot, sticky temperatures combined with the natural body heat of an audience crammed into a confined space to create an insufferable environment for movie-goers. As a result, the theaters saw the size of their audience, and consequently the size of their profits, slump during the summer months. Willis Carrier's invention offered a cool solution.

In 1925, Carrier persuaded the Paramount Pictures Corporation to install his system in the Rivoli Theater - their flagship movie house under construction on Times Square in New York City. The system was ready for its test with an actual audience by the theater's opening on Memorial Day. The experiment was an outstanding success. People flocked to the Rivoli - as many to enjoy the cool relief from the heat as to see the movie. Over the next five years, Carrier installed his climate control technology in 300 movie theaters across the country. Air conditioning transformed the summer months from a financial write-off for the movie industry to its most profitable season of the year.

"Yes, the people are going to like it."

On the night of the test, the most important member of the audience was Adolph Zukor, president of Paramount Pictures. He was anxious to see the audience's reaction. Carrier describes the night:

". . . Typical of show business, the opening of the Rivoli was widely advertised and its air conditioning system heralded along Broadway. Long before the doors opened, people lined up at the box office - curious about 'cool comfort' as offered by the managers. It was like a World Series crowd waiting for bleacher seats. They were not only curious, but skeptical-all of the women and some of the men had fans-a standard accessory of that day. . . .

Among the spectators was Adolph Zukor. I recall how quiet and reserved he was when he walked in and took a seat in the balcony. Zukor may have come from California, but he was there to be shown!

Final adjustments delayed us in starting up the machine, so that the doors opened before the air conditioning system was turned on. The people poured in, filled all the seats, and stood seven deep in the back of the theater. We had more than we had bargained for and were plenty worried. From the wings we watched in dismay as two thousand fans fluttered. We felt that Mr. Zukor was watching the people instead of the picture-and saw all those waving fans!

It takes time to pull down the temperature in a quickly filled theater on a hot day, and a still longer time for a packed house. Gradually, almost imperceptibly, the fans dropped into laps as the effects of the air conditioning system became evident. Only a few chronic fanners persisted, but soon they, too, ceased fanning. We had stopped them 'cold' and breathed a great sigh of relief.

We then went into the lobby and waited for Mr. Zukor to come downstairs. When he saw us, he did not wait for us to ask his opinion. He said tersely, 'Yes, the people are going to like it.'"



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Mike Shy is published 6 times a year by the Society Radio Operators. Deadline is 2 weeks before the meeting. Contributions are welcome & should be sent to the Editor.

Regular Meeting Place

Salvation Army every even month at 7:30 PM unless other-wise indicated in Mike Shy and SRO web site. Check for exact date & time.

Standing Committees

Membership - WA9FTS
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SRO Web Site

www.w9sro.org
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SRO Repeaters

	In	Out
CFAR (107.2) PL	147.750	147.150
TOOFAR (110.2) PL	223.260	224.860

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Lisle Maintenance
W9AEK

Regular meetings - Salvation Army
- 8354 W Foster Av, Norridge

Board Meetings - Most 5th Wed or Thursdays of the month.

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First Class Mail



The International Space
Station
Soyuz, Undocking,
Reentry and Landing

Salvation Army
Apr 13th - 7:30PM