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Welcome to program 70 oaoccttnDve Radiogram.

I'm Kim Andrew Elliott in Arlington, Virginia USA.

Here is the lineup for today's program, in MFSK modes as noted:

1:36 MFSK32: Program preview (now)
2:47 Alexanderson Alternator transmission on 24 October*
7:13 MFSK 128: Cell phone use in North Korea involves bribes*
11:07 MFSK64: Plans for liquid hydrogen filling stations*
16:02 Images of the week*
27:34 MFSK32: Closing announcements

* with image(s)

Please send reception reports to radiogram@verizon.net

And visit <http://swradiogram.net>

Twitter: @SWRadiogram

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From ARRL.org:

SAQ Alexanderson Alternator Transmission to h
Pmrate UN Day

17 October 2018

An Alexanderson alternator transmission from Sweden's Grimeton
Radio Station, SAQ, will be part of UN Day festivities on October
24 at the World Heritage Site in Grimeton, Sweden.

A "Peace Party" at the site will feature Irish folk music from the Swedish band Green Hill. The music style honors the first transatlantic telegraph cable between Ireland and Newfoundland, which opened for telegram traffic in August 1866. "We celebrate this great event in international relations by sending out a peace message to the world with the long-wave transmitter SAQ, and then a concert in the Irish folk spirit with the Varberg band Green Hill," the announcement explained.

The SAQ CW transmission will be on 17.2 kHz and start at 16:30 UTC. A live video stream of the transmission will be available. SAQ will accept listener reports via email. No QSLs will be available.

[http://www.arrl.org/news/saq-alexanderson-alternator-transmission-to-celebrate-un-day\](http://www.arrl.org/news/saq-alexanderson-alternator-transmission-to-celebrate-un-day)

See also:

<http://alexander.n.se/>

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Image: Towers at the Grimeton, Sweden, site of the Alexanderson Alternator. From <http://www.pa3hcm.nl/?p=1232...>

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Shortwave Radiogram now changes to MFSK128 ...

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David Szondy
15 October 2018

Hydrogen-power\$ vehicles are here, but we're still a long wqalwrt s fahad
eidespread infrastructure to support them. In
anticipation of the hydrogen economy of the future, Sandia
National Laboratories (SN□s workiny oneRemhwmmodels that
will help hydrogen refueling sn b¾ itch from hydrogen bliquiRrm en
while implementing new, easier to follow safety
standards.

As | alternative to gasoline and diesel, hydrogen has a lcegr(g fÄ Wukbt
can not only be burned directly in properly
designed engines, but it can also power fuel cells for hybriS"Le0tes.
It's the most abundant element in the universe stlttseu water Å in
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adjustments, can
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The preem is ti□em:xwät a very dense fuel source -
especially in a gaseous state - and there are still very few
hydrogen filling stations, with otuahose in the United
States concentrated in San Francisco, Los Angeles, and San Diego.A
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and not much hydrogen Å lid on site.

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ca<rh an increasing number of hydrogen cars expected to be built
in the near future to joinez]ªhie 000 already on
roads today, a more widespread and efficient hydrogen
ihas@q;e will be needed. To provide t z!eNL and the
largest Americast% 'dvó:t nalement, have entered
into a Cooperative Research and Development Agreement to find
ways to b\$eÆr >oogen, which is much denser theoGãAl t gas, so more can be
stored in one pls4axa

HowevEsipNrtaIocto!noen has to be kept at a temperature below
-253° C (-423° F) and that causes all sorts of headaches. NoepftMZ□tpt
the current US National Fire Protection
Association safety codes are decades out of dd it comes to
handling liquid hydrogen.

Using a software package, SNL is developing models to help it better understand how liquid hydrogen behaves, especially in cases of leaks. It freezes the air around it when it escapes, which means it is harder to detect. To see how a leak works, how much hydrogen is in the air, and how far away from the combustion sources are. The team hopes to be able to solve these problems before large numbers of hydrogen fueling stations are built up in areas with dense populations. The new SNL research data on how hydrogen and oxygen interact in gaseous and liquid states will help predict how much heat is released when hydrogen is warm as the other liquefies, and vice versa, so the computer can find a zone of initial hydrogen and air mixing that is safe. The team is working to make the SNL team a better understanding of the flammable concentration.

According to SNL, this modeling will provide First Element with an independent scientific basis for designing and gaining local permits for the 12 fueling stations the company is planning to build in California. In addition, it will help in determining the best location for stations based rather than prescriptive. That is, instead of laying out in painful detail how to meet safety standards, the codes will determine what a safe station will be up to the supplier to meet those requirements. The team's aim is that this will make it easier to build more stations in different states as well as encourage the wider application of hydrogen as an energy source both in the domestic and industrial sectors. "Our mission has always been to foster the adoption of these technologies to bring better air quality to the state and the world," says the team's director. "That is the part of the project that we are most excited about. We're building it right now." The team's work is part of a larger effort to see also: <https://www.energy.gov/newsroom/news-releases/hydrogen-fueling/>

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Image: Rendering of First Element's hydrogen fuel pump, showing the pump and the nozzle.

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A squirrel in Almaty, Kazakhstan. From bit.ly/2Crj6dh ...

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