

Friedrichshafen 2018



LAX → AMS

Downtown
Amsterdam

Rhine River cruise

Basel by train to
Friedrichshafen

Zeppelin flight

Zeppelin Museum

Hamfest / Maker Fair

FDH → AMS → LAX



Amsterdam

old harbor was
filled in, creating
semi-circular
canals

sunny day !

Amsterdam

old harbor was
filled in, creating
semi-circular
canals





Amsterdam

Some parking for small cars, but most park outside downtown & bike to garage.

Bicycles, motorscooters, motorcycles, boats outnumber cars.



Amsterdam

Smoking,
drinking coffee,
drinking beer,
eating fatty
food.

Amsterdam

Rijks Museum,
Van Gogh
Museum,
but much other
Van Gogh art is
in another
museum outside
of Amsterdam.





River Cruise

We are seated for meals with a brother & sister couple from New Zealand.

He has been to Macquarie, Henderson, Ducie, etc., because he was in the Royal New Zealand Navy.



Pitcairn Island VP6

He was the school teacher, administrator, postmaster, & medic on Pitcairn 1969-1971.

Each night he would tell another interesting story about living there.

Tom Christian taught him to operate SSB.

Ships came only twice per year.

image from <http://www.visitpitcairn.pn/>

Harlem

2 weeks too late to see flower gardens, so only the city walking tour.

Bollards limit traffic to delivery vans, with key cards.



Harlem

Bicycles,
cathedrals, &
tiny cars.





Amsterdam

Lots of old stuff.



Amsterdam

In the square:
beer,
cigarettes,
raw fish.



Harlem

In the square:
beer,
cell phones.

Openlucht Museum

Pre-WW1
buildings
preserved.





Openlucht Museum

Old farmhouse.



Openlucht Museum

Old farmhouse.



Openlucht Museum

New tiles on the
weather side.

Openlucht Museum

Dutch, English,
German.

2.1

Stolpboerderij, Zuid-Scharwoude, 1745



**De bedstee van een stolpboerderij
is 's winters lekker warm**

De voorname familie Van Twuyver bewoont deze stolpboerderij in de 18e en 19e eeuw. Hoe welvarend ze zijn is te zien aan de luxe inrichting. Als de koeien 's zomers in de wei staan, wordt de stal ingericht als zomerstal, met mooie zandpatronen op de vloer en de attributen voor het maken van boter en kaas te pronk. Stolpboerderijen staan vooral in Noord-Holland, benoemen het IJ. Typisch is de vierkante constructie met piramidevormig dak. Een slimme vorm voor een boerderij. Een soort alles-in-een, met in het midden een grote berg hooi en daaromheen alle andere ruimtes voor de bewoners en het vee. Handig, want zo zijn de koeien altijd dichtbij. De bedsteden zijn als het ware in de centrale hooiberg ingebouwd, wat 's winters lekker warm is.

Hier geplaatst in 1948

Farmhouse, Zuid-Scharwoude, 1745

**The box bed in this farmhouse is
lovely and warm in winter**

The prominent Van Twuyver family lived in this 'cheese-cover farmhouse' in the 18th and 19th centuries. You can see just how wealthy they were from the luxurious interior. When the cows were at pasture in the summer, the cowshed was decorated with beautiful sand patterns on the floor and the equipment used to make butter and cheese was put on display. This type of farmhouse is mainly found in North Holland, to the north of the river IJ. It is characterised by its square base and pyramid-shaped roof. This was a clever design for a farmhouse. A kind of all-in-one building with a large haymow in the middle, around which were the living quarters and the space for the livestock. The box beds were 'built into' the central haymow, so to speak, ensuring they were lovely and warm in the winter.

Relocated here in 1948

Gulphaus, Zuid-Scharwoude, 1745

**In der Butze eines Haubargs ist
es im Winter wohlig warm**

Die vornehme Familie Van Twuyver wohnt im 18. und 19. Jahrhundert in diesem Haubarg. An der üppigen Einrichtung lässt sich erkennen, wie wohlhabend sie ist. Wenn die Kühe im Sommer auf der Weide stehen, wird der Stall als Sommerstall eingerichtet. Dabei werden auf dem Boden schöne Sandmuster angebracht und die Geräte zur Butter- und Käseherstellung schön zur Schau gestellt. Haubarge findet man hauptsächlich in Noord-Holland nördlich des IJ. Charakteristisch ist die quadratischen Konstruktion mit einem pyramidenförmigen Dach. Die Form ist für ein Bauernhaus gut ausgedacht und multifunktional. In der Mitte ein großer Stapel Heu und darum herum alle anderen Räume für die Menschen und die Tiere. Die Butzen sind in den zentralen Heustapel „eingebaut“, so dass sie im Winter schön warm sind.

Hier im Jahr 1948 wiedererrichtet



Openlucht Museum

Houses from
different time
periods.



Openlucht Museum

Laundry.



Openlucht Museum

Fishing cottage.



Openlucht Museum

Russell turns the
Screw of
Archimedes.

The wire mesh is
there to keep
tourists from
getting hurt.



Rhine River

Sheep stampede.



Rhine River

Industrial sites.



Rhine River

Cruise ships are fixed size, to fit through locks, approximately 100 passengers.



Rhine River

Lounge forward,
restaurant aft.



Rhine River

outdoor seating
on bridge deck.



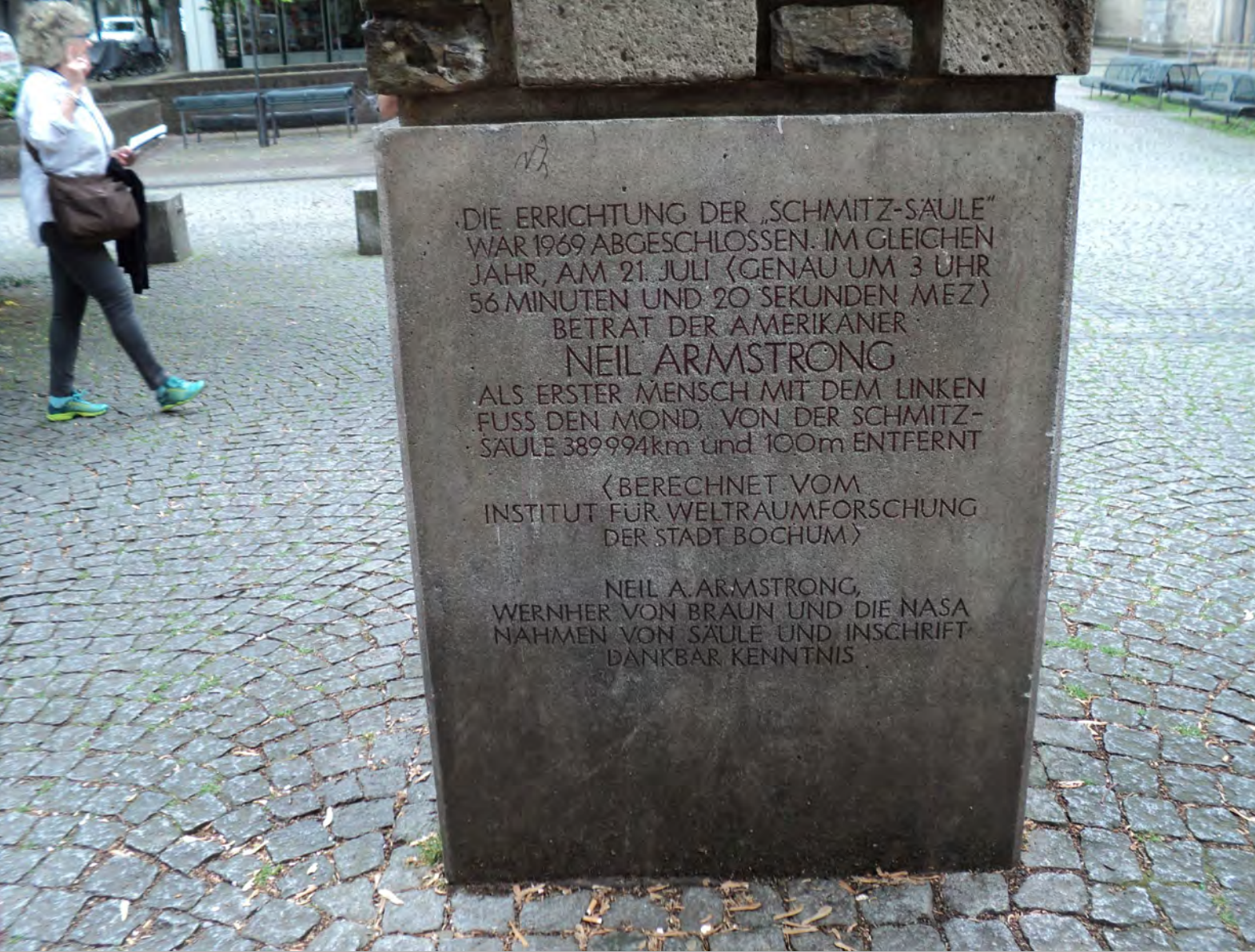
Rhine River

High-water mark
from 1784.

RHEIN-HOCHWASSER-MARKE,
28. FEBRUAR 1784

BEI DIESER EISFLUT
WURDE MÜLHEIM VERNICHTET

"SCHMITZ-SAULE"
VON EINEM KÖLNER BÜRGER
1965



173
DIE ERRICHTUNG DER „SCHMITZ-SAULE“
WAR 1969 ABGESCHLOSSEN. IM GLEICHEN
JAHR, AM 21. JULI (GENAU UM 3 UHR
56 MINUTEN UND 20 SEKUNDEN MEZ)
BETRAT DER AMERIKANER

NEIL ARMSTRONG

ALS ERSTER MENSCH MIT DEM LINKEN
FUSS DEN MOND, VON DER SCHMITZ-
SAULE 389.994 km und 100 m ENTFERNT

(BERECHNET VOM
INSTITUT FÜR WELTRAUMFORSCHUNG
DER STADT BOCHUM)

NEIL A. ARMSTRONG,
WERNHER VON BRAUN UND DIE NASA
NAHMEN VON SAULE UND INSCHRIFT
DANKBAR KENNNTNIS

Rhine River

Moon Landing in 1969.



Rhine River

Cologne
Cathedral
survived WWII.



Rhine River

Cologne
Cathedral
survived WWII.



Rhine River

Region where
castles collected
heavy tolls on
river traffic.



Rhine River

Now operates as
tourist venue.



Rhine River

Wear proper
walking shoes.

Rhine River

Another castle
that held sway for
100 years,
sacked, rebuilt,
modern owners
live in part of it,
partly ruined,
shops &
restaurant....





Die Lorelei

Dangerous bend in the river.

Famous poem by Heinrich Heine about the siren's song luring sailors to wreck.

Statue added in modern times.

See it polished gold in the cruise advertisements.



River Cruise

After walking 3 miles
per day, it is time for a
beer.



Rhine River

Very long river, navigable since Roman times from Switzerland to Netherlands, but swampy sections have been bypassed by canals, which hold constant water level.



Rhine River

Very long river, the natural border between France and Germany.



Pitcairn T-shirt

As we went south, it became too warm to wear heavy clothes.



Let's have a beer.



Rheinfall

East of Basel.

Downstream from these falls, the Rhine is navigable all the way to the North Sea.

Basel Badischer Bahnhof

Our train is not there!

Because of
construction, we had
to take a train, bus,
train connection.

Abfahrt <i>Departure / Départ</i>					
Zeit <i>Time/Temps</i>	Über <i>Via</i>	Ziel <i>Destination</i>		Gleis <i>Platform/Voie</i>	
12:23	ICE 278	Freiburg(Brg) Hbf - Offenburg	Berlin Ostbahnhof	4	
12:30	EC 8	Freiburg(Brg) Hbf - Baden-Baden	Hamburg-Altona	5	
12:40	ICE 103		Basel SBB	3	
12:42	IRE 17411	Rheinfelden - Waldshut - Schaffhausen	Thayngen	8	
12:45	SBB 87829		Basel SBB	10	
12:47	SBB 87830	Lörrach Hbf - Schopfheim	Zell (Wiesental)	7	
12:47	ICE 71	Basel SBB - Zürich HB	Chur	3	
12:47	RB 17355	Grenzach - Rheinfelden	Lauchringen	6	
12:48	RE 17020	Weil am Rhein - Müllheim (Baden)	Offenburg	9	

Zoll

Zu den Zügen

Customs, to the trains
Douane, Accès aux quais





Friedrichshafen train station & bus depot

Buchorner & Seehotel
are close by, also the
Uferpromenade along
the lake shore.

Transportation was
good, but info was
confusing.

A grocery store with
inexpensive food &
beer.



Buchorner Hof Hotel

Old building, but
modern rooms

air-conditioning was
barely adequate.



Bodensee Uferpromenade

Park & broad
sidewalk along the
lake shore.

Switzerland on south
side of lake.

Sometimes the snow
covered Alps were
visible.



Pavillon am See Biergarten - Restaurant

Across the street
from Buchorner.

German food &
IndoChinese.



Pavillon am See Biergarten - Restaurant

Chicken, curry
vegetables...

Plenty of dark beer.



Uferpromenade

sculpture, fountain,
boat rides.

Swiss Alps visible in
the distance.

Pop-up
thunderstorms in the
late afternoon.



Zeppelin flight

ship always faces
into the wind

2 off 2 on boarding
to maintain neutral
bouyancy

Zeppelin flight



fueling on side of
gondola

left & right engines can
be rotated to act similar
to ailerons

tail engine rotates to act
similar to rudder &
elevator



Zeppelin flight

Pilot + Flight
Attendant

2 rows of 6
passengers

rear seats were nice



Zeppelin flight

take-off is almost
straight up



Messe halls

each as large as
Zeppelin hangar

hamfest booths in
one

MakerFaire in one

ham flea market
almost filled 2



Zeppelin flight

Window opens to
take pictures
without reflections

Do not drop cell
phone out of window!



Zeppelin flight

cruising 1000' AGL

35 miles per hour



Zeppelin flight

controls similar to
airplane



Zeppelin flight

many ferries & sailboats
on Lake Constance

we could not find info
about dinner cruise



Zeppelin flight

glint



Messe

looking southeast

big event is the aviation
convention in April

parking lot at upper
right had many ham
RVs with portable
antenna setups



Zeppelin flight

A fixed-wing airplane
could not make such a
steep descent



Zeppelin post-flight

Beer & schnitzel



Zeppelin Museum

east end of
Uferpromenade,
near ferry
terminal

Zeppelin Museum

subsection of
Hindenburg
duplicated inside
the museum





LZ-129

cafe



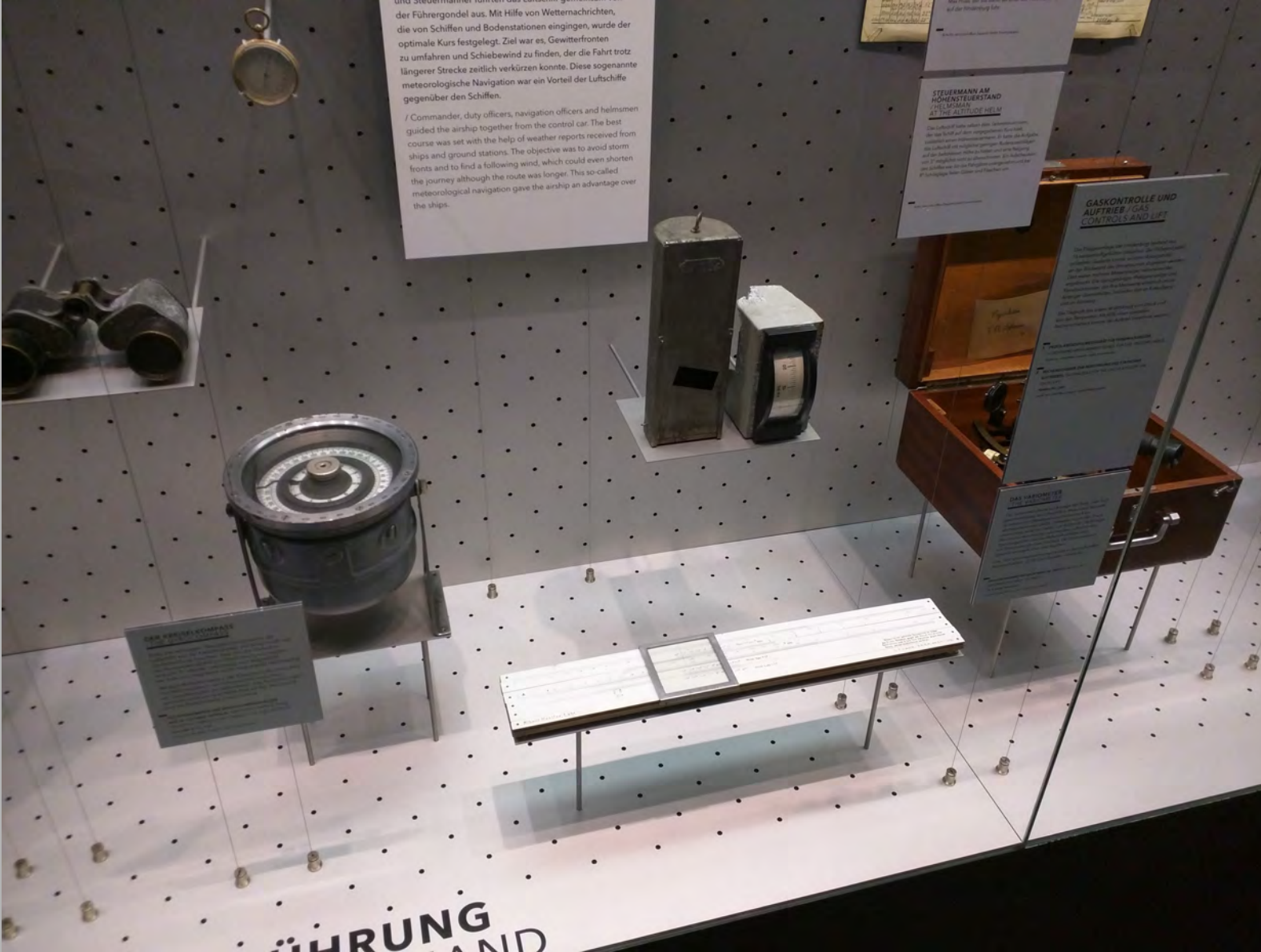
LZ-129

passenger
cabin:

bunk beds

small sink

1 chair



LZ-129

chronometer

compass

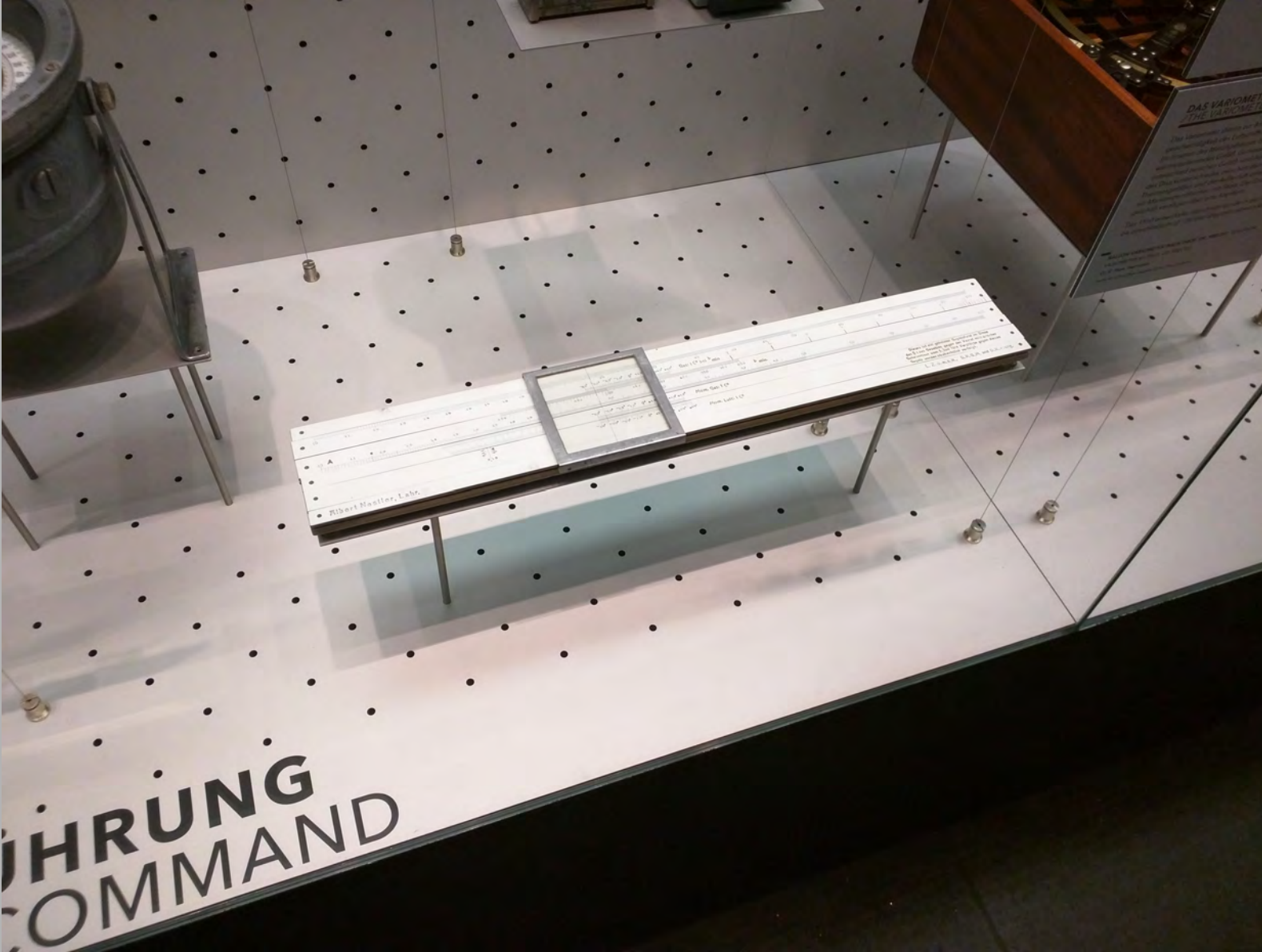
slide rule

sextant

LEHRUNG
AND

Zeppelin Museum

large,
easy to read
slide rule



LZ-129

most of the traffic
was weather
advisories

dual language sign:
did they really need
to translate
“didididit ...”



DIDIDIDIT DIDAH
DIDAHDIDIT
DIDAHDIDIT
DAHDAHDAH
/ DIDIDIDIT DIDAH
DIDAHDIDIT
DIDAHDIDIT
DAHDAHDAH

Wichtigste Aufgabe der Funker war das Einholen von
Wetternachrichten. Sie waren für die Schiffsführung
von großer Bedeutung, da sie anhand der Wetterprognosen
den Kurs festlegte. Morgens, mittags und abends wurden

Zeppelin Museum

FAX ?



Zeppelin Museum

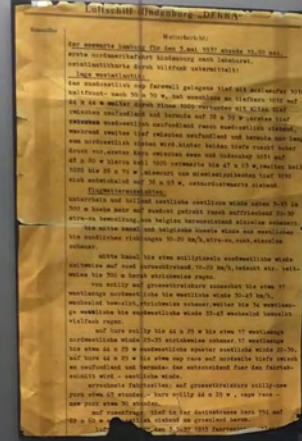
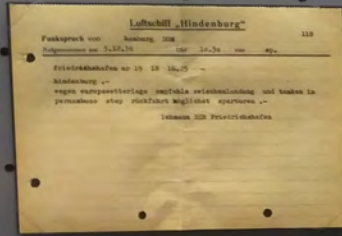
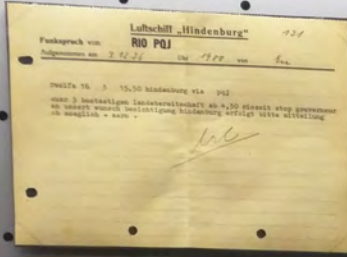
FAX ?



Zeppelin Museum

2 telegrams

long weather
report



DER FUNKRAUM DER HINDENBURG / THE RADIO ROOM OF THE HINDENBURG

Im Funkraum der Hindenburg waren meist zwei Funker tätig. Alle Funkgeräte waren auf einem Arbeitstisch angeordnet. In der Mitte befanden sich die beiden Allwellen-Empfänger, links ist der Kurzwellensender und rechts der Langwellensender zu sehen. In den Bodenöffnungen erkennt man die Winden für die beiden ausfahrbaren Antennen, die eine Länge von 120 m hatten.

1 ZWEI FUNKER AUF WACHE IM FUNKRAUM VON LZ 129
/ TWO RADIO MEN INSIDE THE RADIO ROOM OF LZ 129
Zeppelin Museum Friedrichshafen - Technik und Kunst

2 BLICK IN DEN FUNKRAUM VON LZ 129
/ VIEW INSIDE THE RADIO ROOM OF LZ 129
© Archiv der Luftschiffbau Zeppelin GmbH, Friedrichshafen

DER TELEGRAMMVERKEHR IM LUFTSCHIFF / TELEGRAM TRANSMISSION ON THE AIRSHIP

Telegramme wurden in Morsezeichen übermittelt. Die eingegangenen Nachrichten wurden auf einer Schreibmaschine abgetippt und an die Schiffsführung weitergeleitet. Für die Weiterleitung von Telegrammnachrichten von und zur Funkkabine war eine Rohpostanlage vorhanden, die Verbindung eine Rohpostanlage und dem Stewardraum hatte.



in 4 oder 5 Sekunden
auf etwa 1000 °C. Bei der Verbrennung
können Temperaturen von bis zu 3.000 °C erreicht
werden.
Uhren der Firma Junghans waren an verschiedenen
Stellen im Luftschiff angebracht. Unter anderem im Durch-
gang zwischen Gesellschaftsraum und Treppenhaus oder
in der Führergondel.

- 1 BORDUHR / BOARD WATCH
Gebüder Junghans A.G., Schramberg, Aluminium,
Leuchtstofflampe und -zeiger
Deutsches Museum, Friedrichshafen - Technik und Kunst
- 2 FOTO DER BORDUHR / BOARD WATCH PHOTO
© Archiv des Luftschiffes Zeppelin-Lindbergh, Friedrichshafen

LZ-129

recovered pieces of
burned wreckage

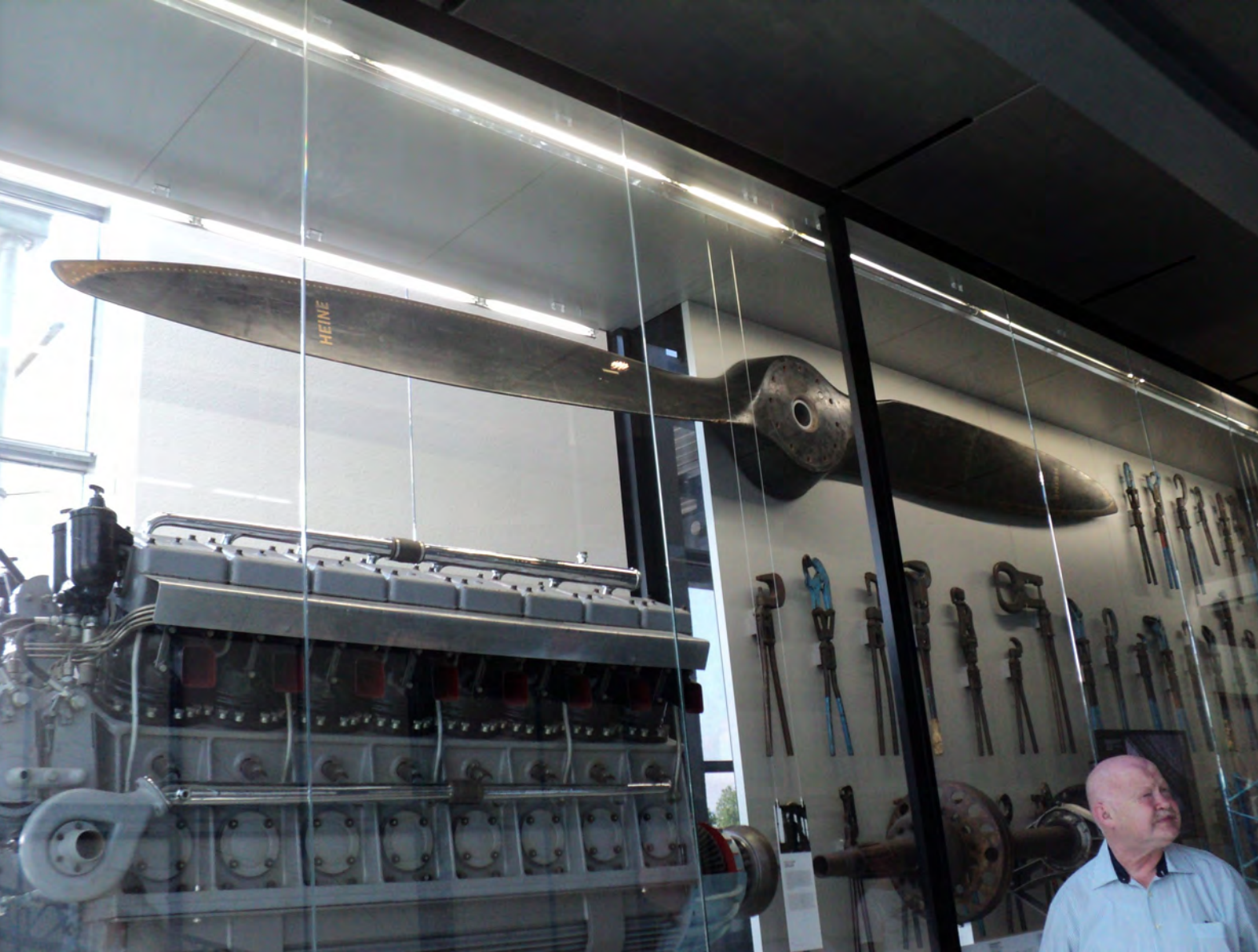


LZ-129

portion of structure
which contained
the gas bags

LZ-129

Each V-16
Mercedes
Diesel turned 2
propellers 6m
diameter



Zeppelin Museum

Restaurant, with
terrace
overlooking the
ferry terminal





Zeppelin Museum

Noch ein Bier.



Shuttle
Bus to
Hamfest

meeting
some
UK hams

waiting
to get in





Flea Market

All the stuff
we usually see,
plus lots of EU junk.



Flea Market

Best selection on Friday,
best prices on Sunday.

Flea Market

50 – 180 MHz
receiver

Controls labeled in
German and French.





Flea Market

5, 7, 12 Euro a piece!



Flea Market

old stuff

Flea Market

very old stuff



Flea Market

old Russian stuff



Flea Market

loaded rotatable dipole



Aluminum
Mast
sections



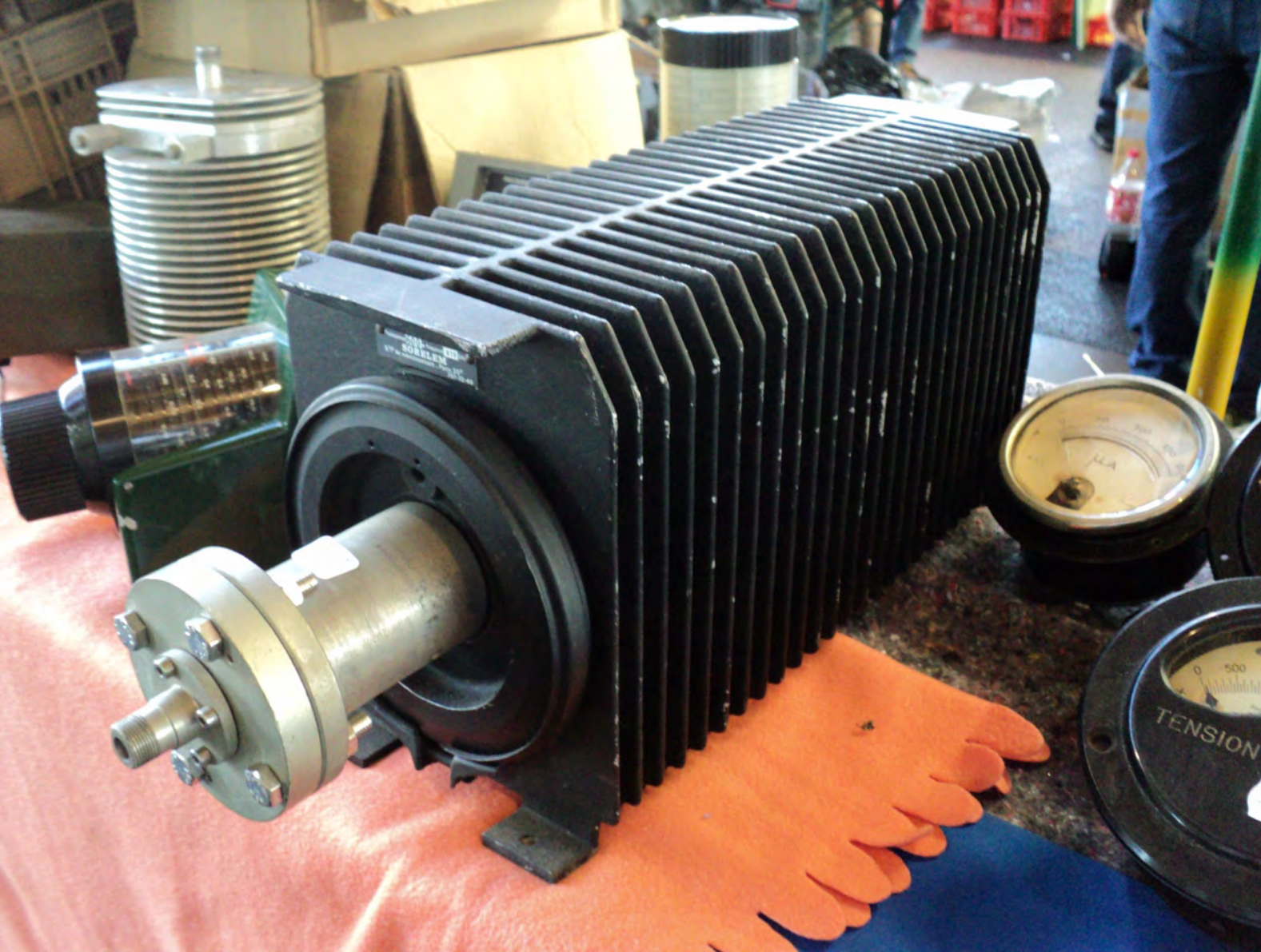
6m Crank-Up
Mast



Fiberglass Masts

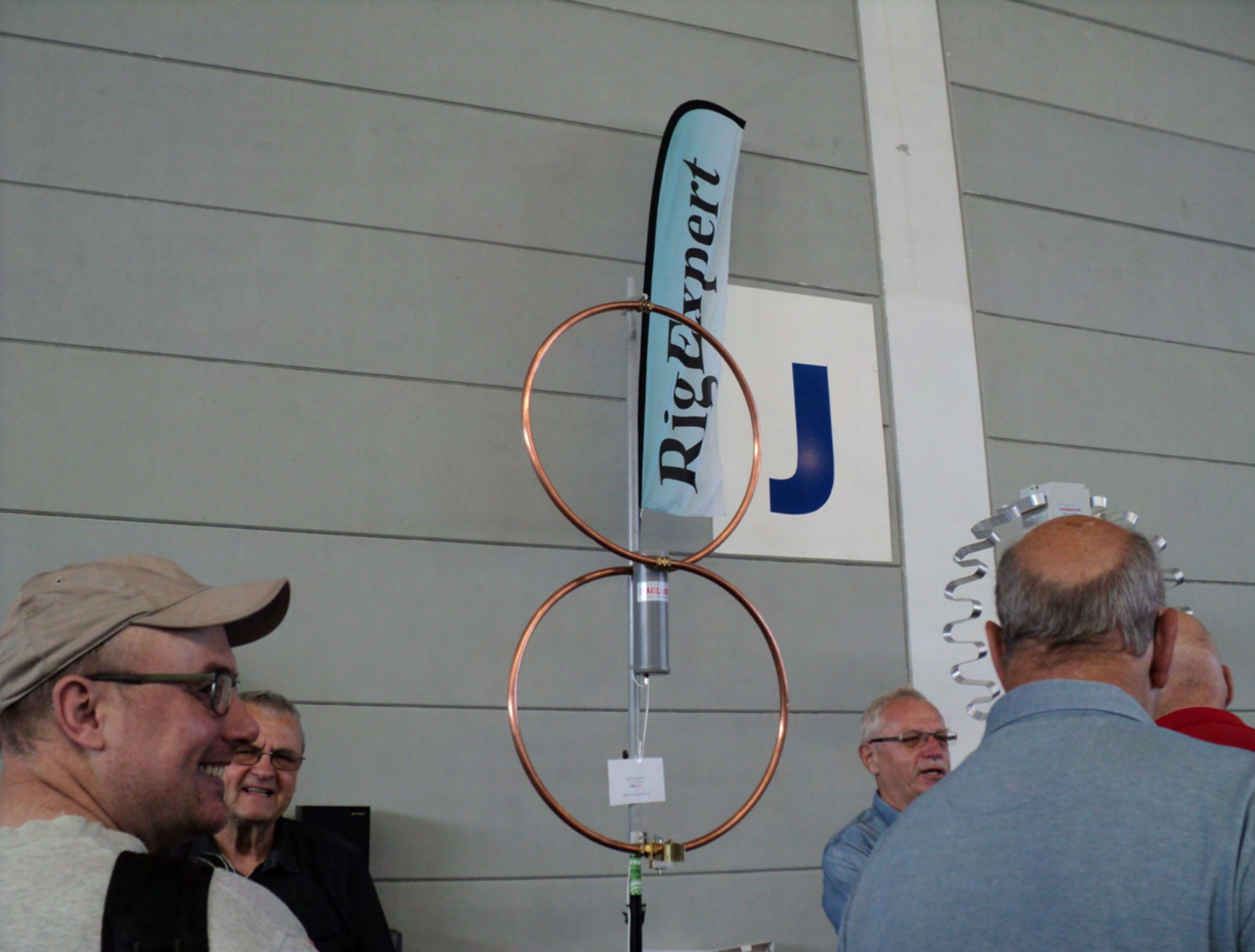
“GRP Mast 8.40m
50 Euro”

”6m 25”



Flea Market

There were some nice looking dummy loads, but too big & too \$\$\$



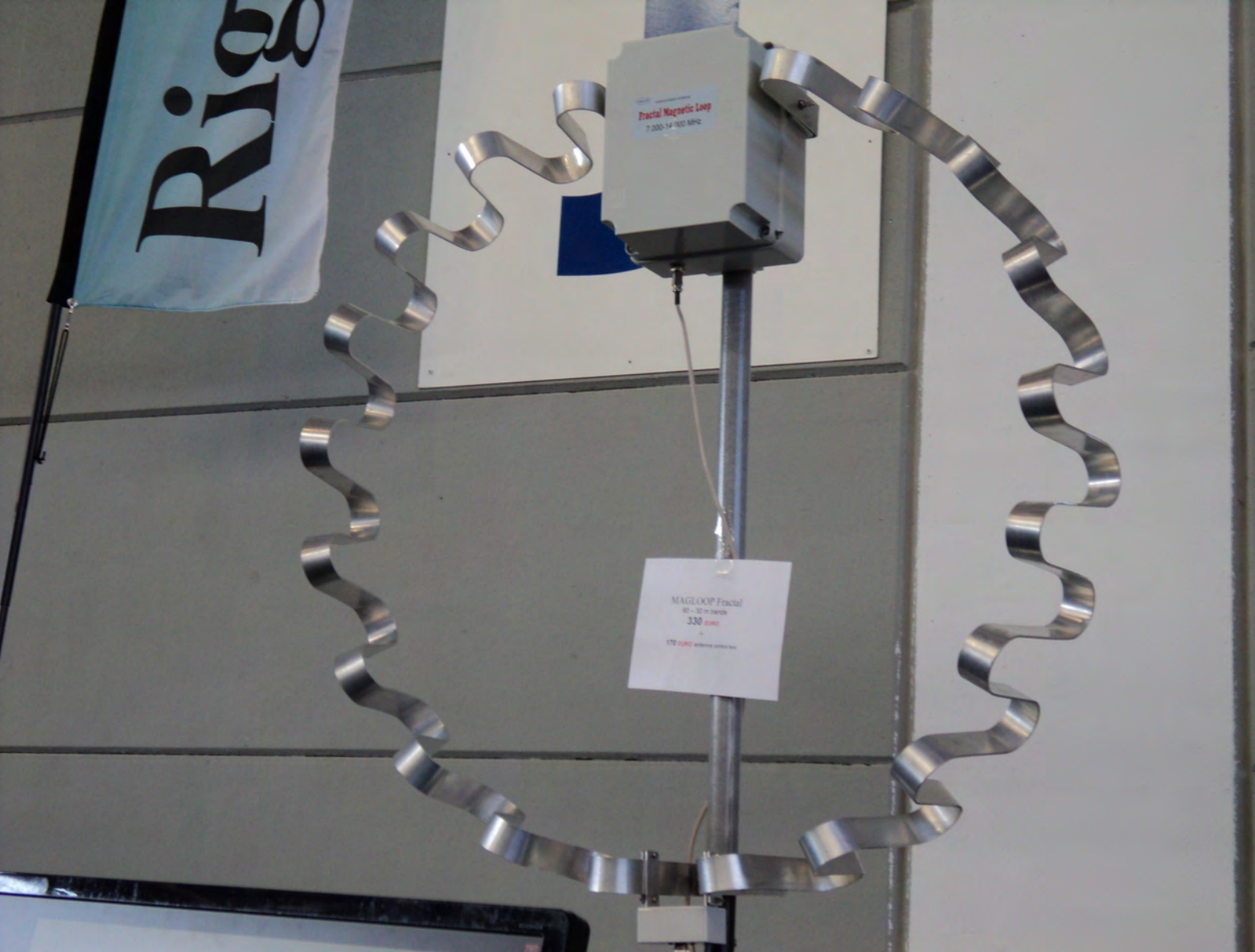
Loop Antenna

loops are popular
in EU,

because
space is limited

Loop Antenna

MAGLOOP Fractal
60-30m bands
330 Euro
+
170 Euro
antenna control box



Loop Antenna

15-80m
198 Euro

Neu !

Direkt gekoppelte
Doppelloop für 15 ...80m
Mit 1,8 m E- Strahler
P. max: 100We 80cm Ø

Preis : 198,-€

Neu !

Direkt gekoppelte Doppelloop mit
E-Feldstrahler für hohe Strahlungsleistung.

15..80m / 100We

Siehe : FUNKAMATEUR-Heft 6.2018
von DL4 KCJ

Preis: 198,-€

10...15m Dia - Loop
in Serienresonanz
Pmax. 100We
Gewinn > 0 dB
Verschiedene Ausführungen.
88-4



Midi Loop Antenna

heavy-duty

Loop Antenna

homebrew ?

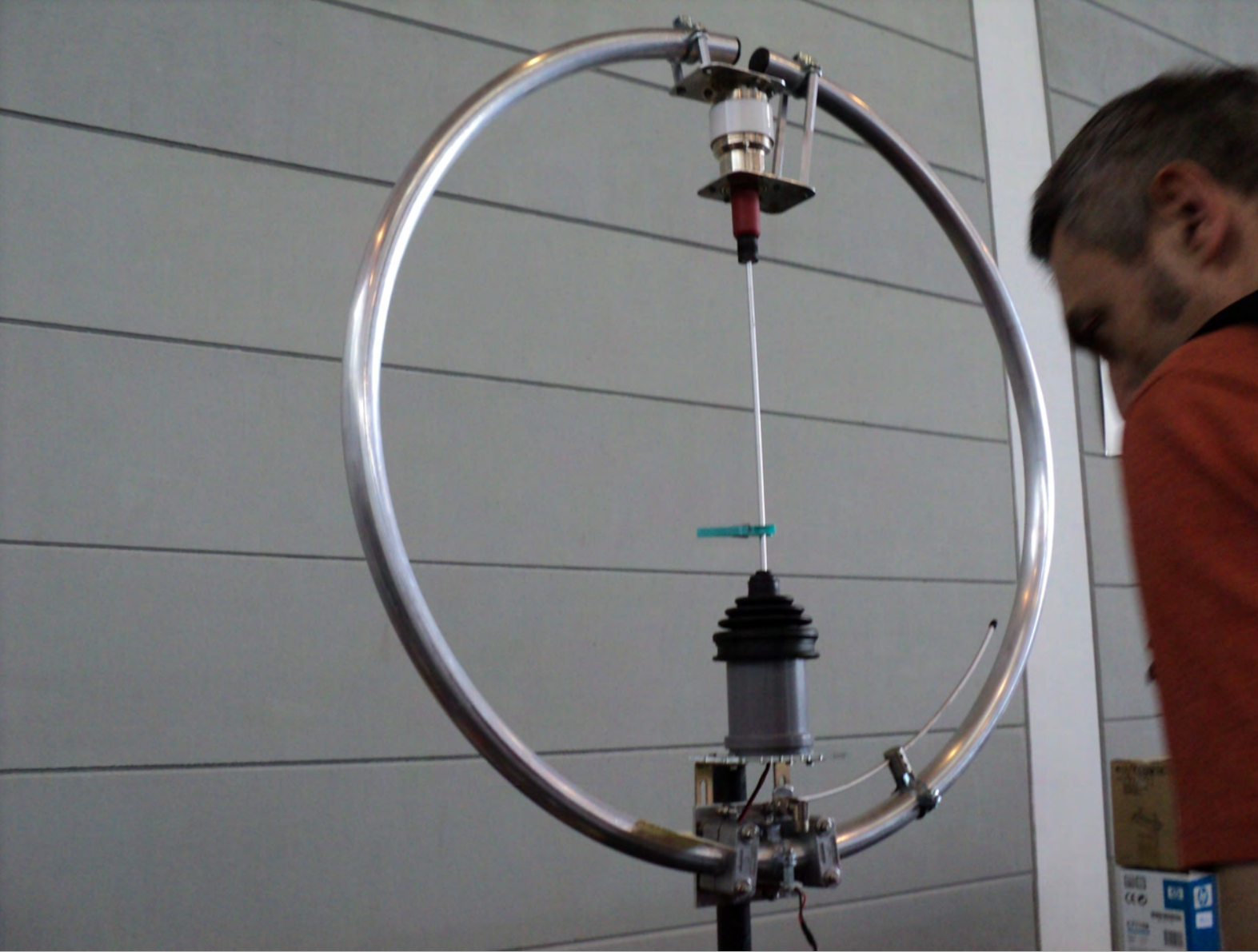


Loop Antenna

homebrew ?

on mast

vacuum variable
capacitor



DX Clubs

A7 Qatar





DX Clubs

DARC Germany



DX Clubs

HS Thailand

DX Clubs

I Italy



DX Clubs

OH Finland



DX Clubs

YO Romania



DX Clubs

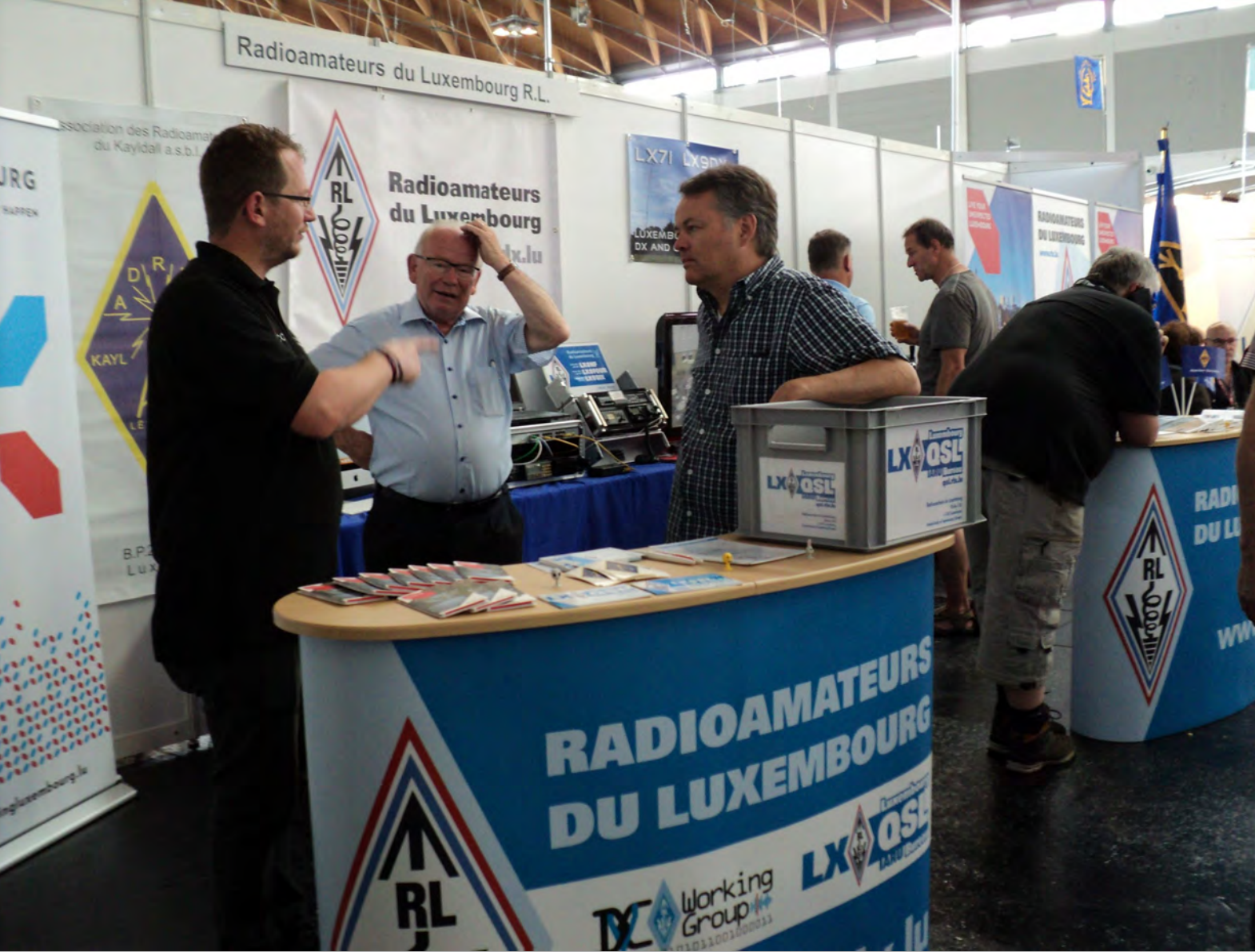
EA Spain





DX Clubs

S5 Slovenia



DX Clubs

LX Luxembourg

Orlando Hamcation



ARDF Funksport

cross-country running
+
Radio Direction Finding

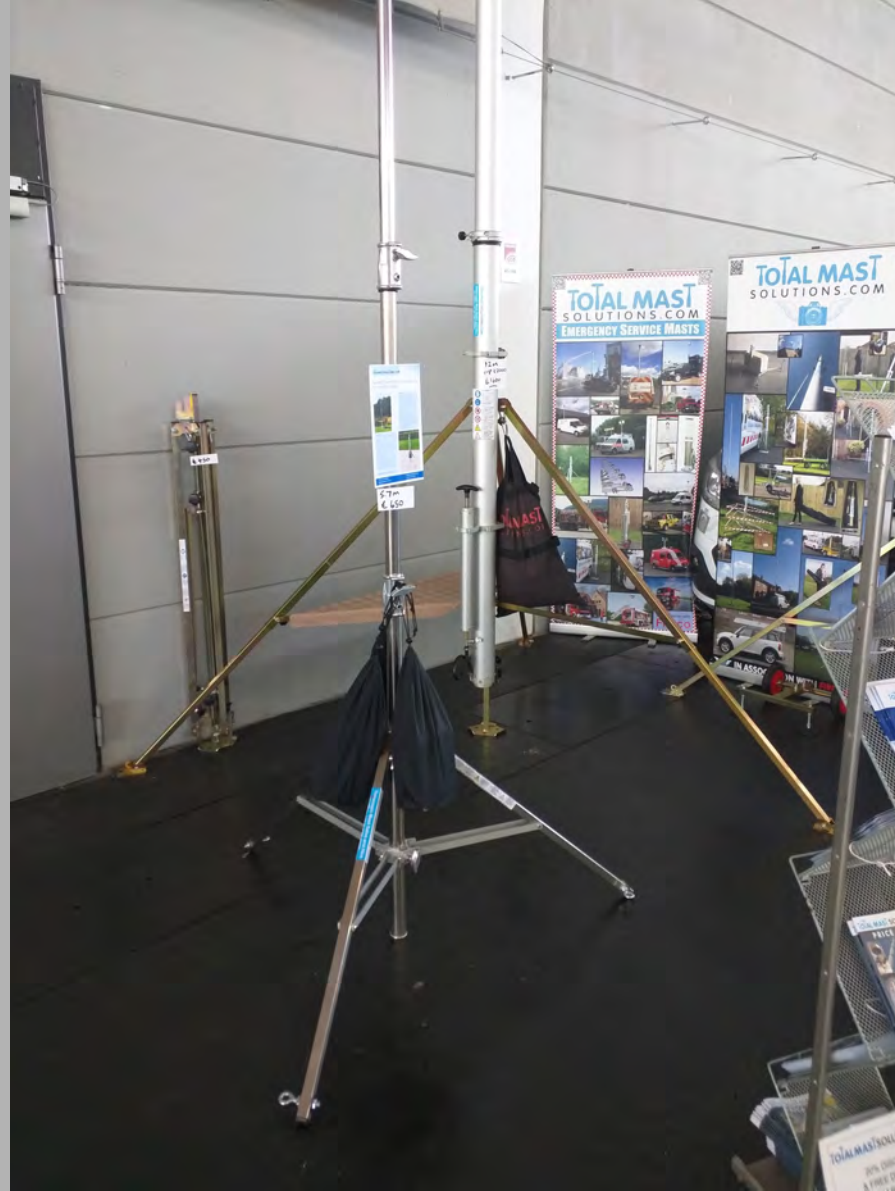


HAMNET

VHF, UHF, microwave
networking



Push-Up Quick-Lock Mast



Pump-Up Mast

Pump-Up Masts

“Big discounts on ex-demo and used equipment sold here today.”



Various sizes

Pump-Up Masts

various sizes

with & without tripod

“Big discounts on ex-demo
and used equipment sold
here today.”



Pump-Up Mast

only 450 Euro

would not fit in carry-on





spiderbeam

22m fiberglass mast
369 Euro

Telescoping tower with self-propelled trailer

various sizes

extremely \$\$\$



Hilberling

HF+6m all mode
full-size buttons & knobs



Hilberling

HF+6m all mode
matching amplifier/tuner



Yaesu FT-991A

HF/VHF all mode

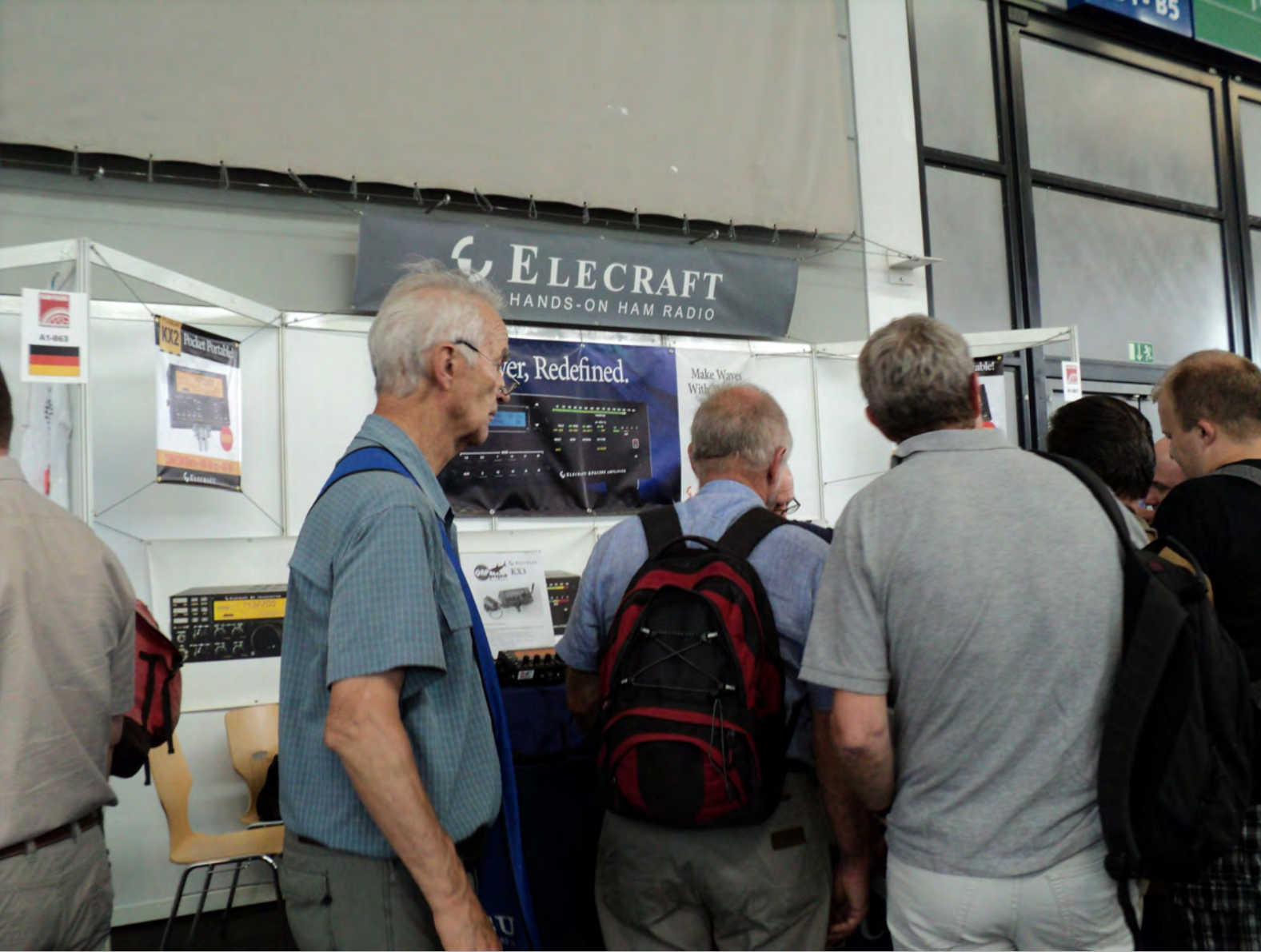
replaces FT-847,
but no full-duplex SAT

tiny buttons



Elecraft

Eric WA6HHQ
handling a pileup





Emergency radio

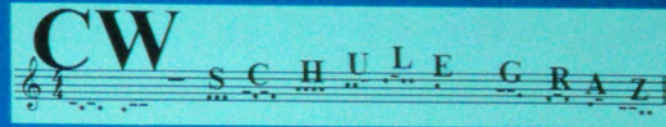
heavy-duty tower trailer

7m crank-up mast

VHF log periodic

Special Interest Presentations

CW, SDR, ...



Moderne Didaktik für's Erlernen des Klartextes

Modern Techniques for Learning to Copy in your Head

OE6RDD, AGCW 3835, HSC 1940, VHSC 423, Gerhard
OE6FEG (M0FEU), HSC 1954, Matt



Maker Faire®

Die nächsten
Veranstaltungen:



... weitere folgen.

Maker Faire

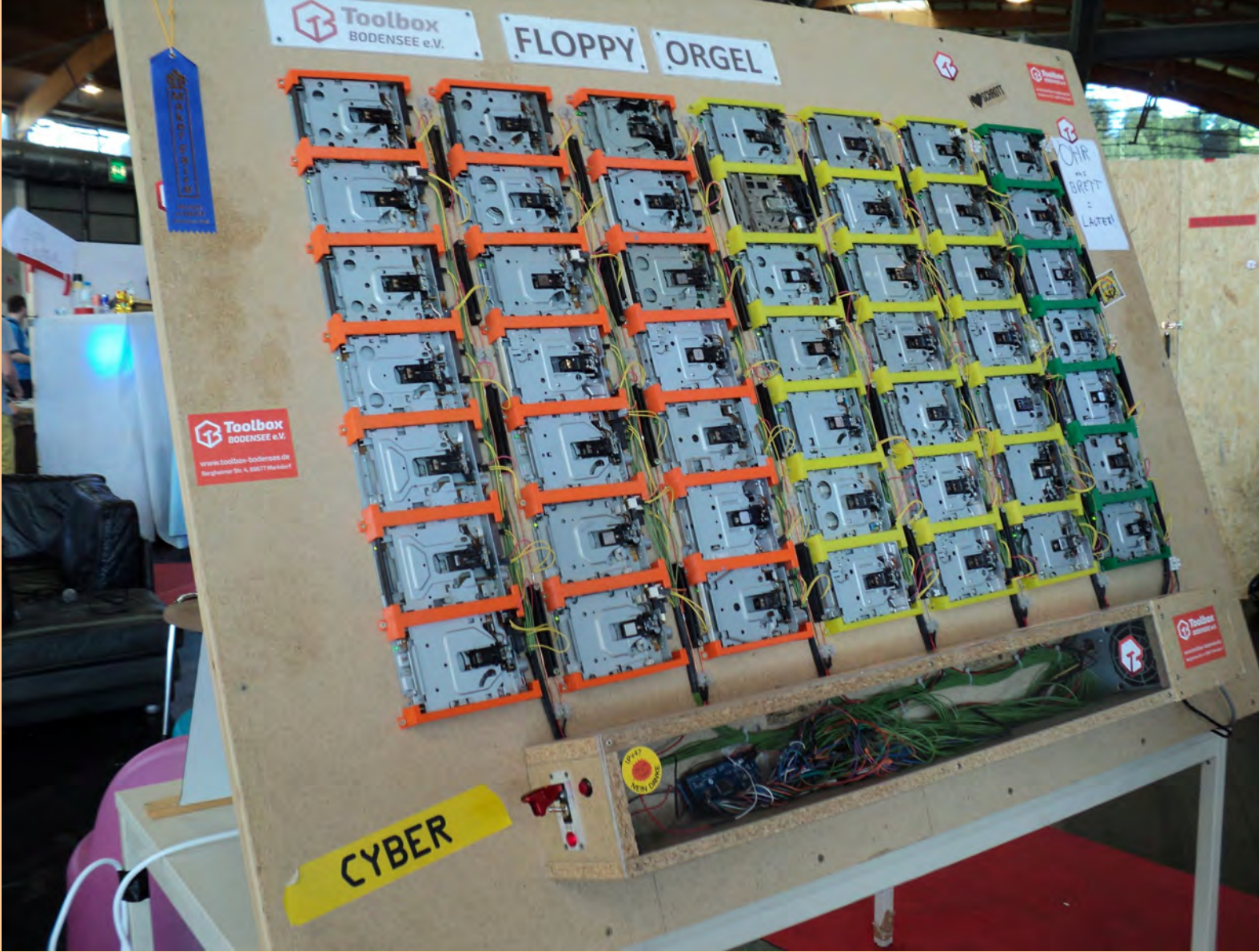
10 events in 2018



Maker Faire

upcycling:

whirligig made from
spoons & bicycle wheels



Maker Faire

upcycling

FLOPPY ORGAN



Maker Faire

educational toys

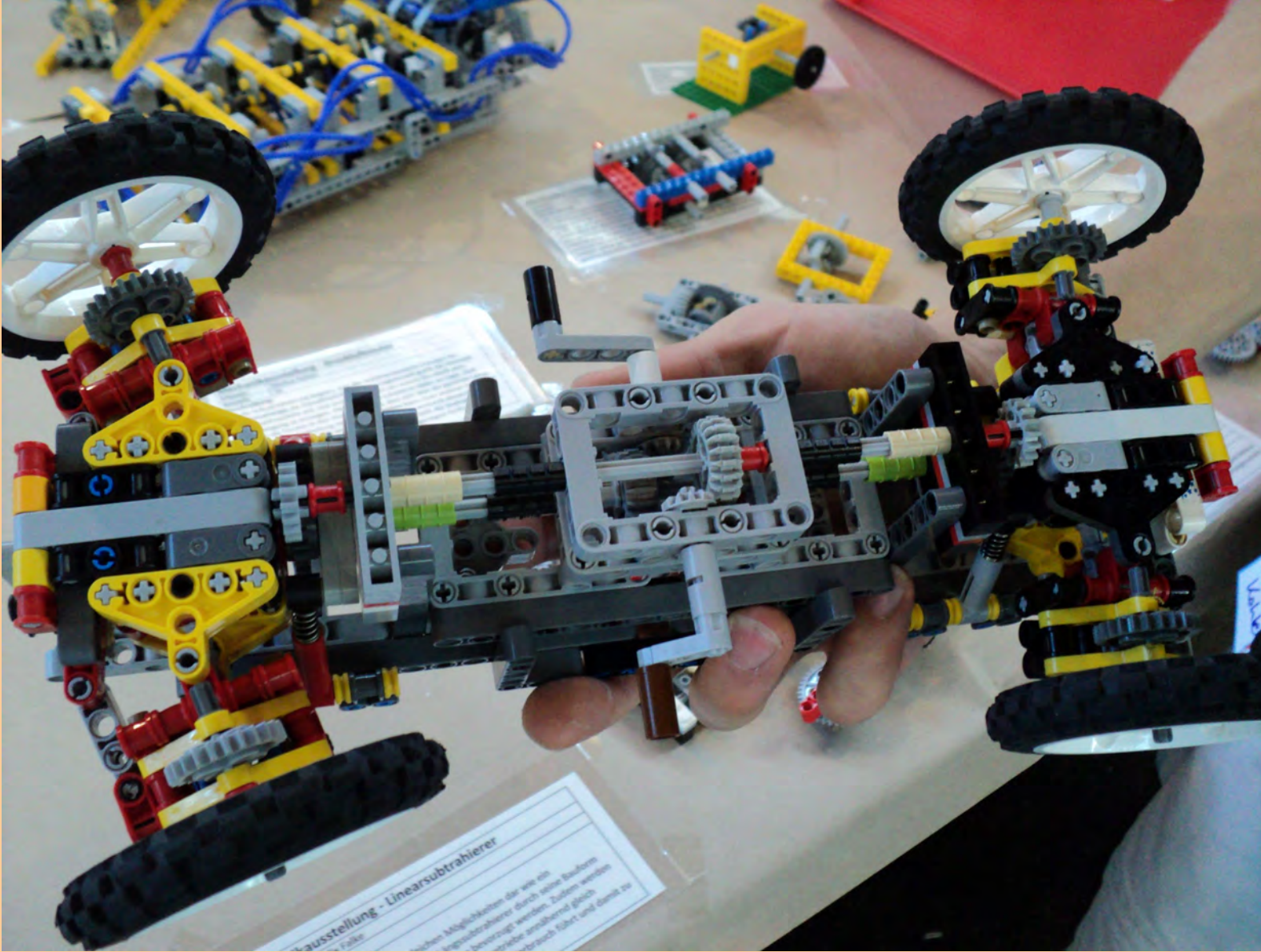
<https://fillygons.ch/>

"Bitte beruehren" means
"Please touch"



Maker Faire

robots



Maker Faire

more sophisticated than
Lego or Erector Set



Maker Faire

electronic signage



Maker Faire

aromatics

spiral knit socks



Maker Faire

computer cases:

fancy lights

light show & fans

marquis lights

Maker Faire

computer cases:

pirate motif

"drinking & gaming"



Maker Faire

computer cases:

art deco

motorcycle

steam punk



Maker Faire

computer cases:
war-game rig





Maker Faire

Steam Punk



Maker Faire

Sylvana

cosplay, sports cars, robots

This is why young people
are at the Maker Faire,
instead of the Hamfest.

Image from <https://www.pictasite.com/post/Bjj6zpPgQGr>

SLVARC (c) 2018 John AC6SL



Friedrichshafen 2019

2019 date conflicts with US Field Day

Nice tourist destination

Weather is warm, humid, thunderstorms in afternoon

No bargains at Flea Market