



# The 21<sup>st</sup> Space Model World Championships

## Lviv, Ukraine

### August 22-30, 2016

John Langford

February, 2017

# U.S. Junior Spacemodeling Team

- First FAI world championships were held in 1972
- Junior (age 18 and under) age category added in 1994
- First US Junior entrant (John Marsh) flew in 1996
- Two junior entrants (Ellis Langford and Gib Reynolds) flew in 2000
- NAR organized first Junior team in 2002



# Junior Team Participation

| Year | Location         | Size | Team Manager                 |
|------|------------------|------|------------------------------|
| 2002 | Czech Republic   | 6    | John Langford                |
| 2004 | Poland           | 7    | John Langford                |
| 2006 | Baikonur, Russia | 10   | John Langford & Greg Stewart |
| 2008 | Spain            | 11   | Bill Stine                   |
| 2010 | Serbia           | 14   | Bill Stine                   |
| 2012 | Slovakia         | 14   | Bill Stine                   |
| 2014 | Bulgaria         | 16   | Bill Stine                   |
| 2016 | Ukraine          | 8    | Katherine Humphrey           |

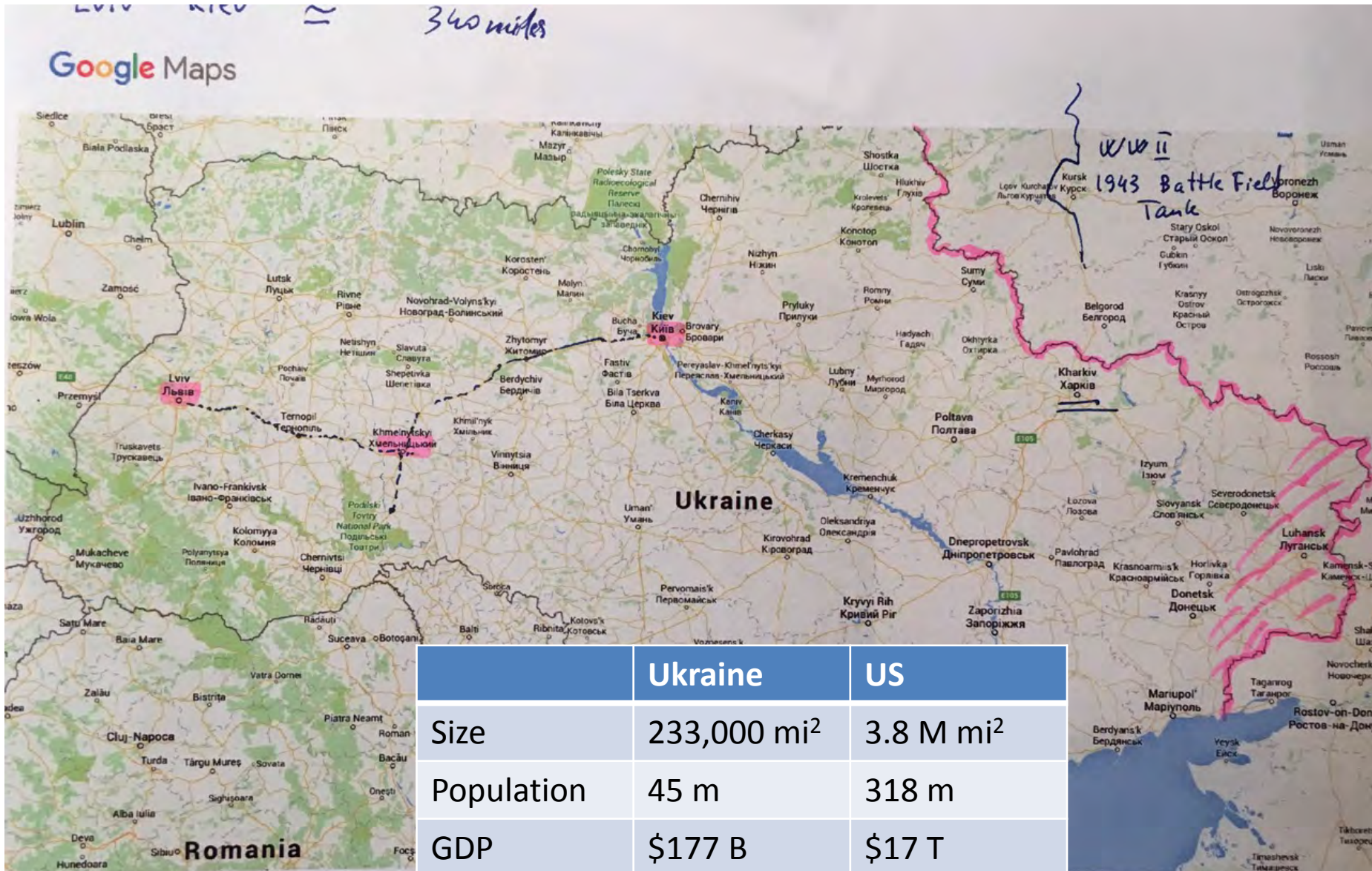
# We need everyone to get involved in STEM



# S1: Altitude



# Ukraine



© 2016 Google 50 mi

# S2P: Precision Altitude



# On the road with Grigoriy





# The Next Internats

| EVENT NAME                                             | PLACE              | DATE                  |                                                                                     |
|--------------------------------------------------------|--------------------|-----------------------|-------------------------------------------------------------------------------------|
| <b>2018 FAI S World Championships for Space Models</b> | Nowy Targ (Poland) | 25 Aug to 02 Sep 2018 |  |

# FAI Home Page: www.fai.org/aeromodelling

The screenshot shows the FAI Aeromodelling website homepage. At the top, the browser address bar displays [www.fai.org/aeromodelling](http://www.fai.org/aeromodelling). The page features a navigation menu with links for 'FAI portal', 'Sports', 'Expertise', and 'Mailing lists'. A search bar and social media icons for Facebook, Flickr, and YouTube are also present. The main content area is titled 'AEROMODELLING' and includes a large image of a woman wearing FPV goggles. A text overlay on this image reads: 'Women with wings: Meet Drone Pilot GaYeon Mo. Meet 17-year-old Korean drone pilot GaYeon Mo, whose years of Taekwondo and Wushu training showed he...'. To the left of this image is a smaller image of the FAI Aeromodelling Commission logo and a text box stating: 'The FAI Aeromodelling Commission (CIAM) conducts FAI's aeromodelling and spacemodelling activities, in particular World Records and International Competitions.' Below the main image, there are four navigation buttons: 'News', 'Personalities', 'Events', and 'Records'. The 'News' section is active, showing three news items with 'READ MORE...' links. The first news item is 'Women with wings: Meet Drone Pilot GaYeon Mo'. The second is 'CIAM Flyer (1-2017): Formula 1 was Yesterday Today is all about Drone ...'. The third is 'Drone pilot Vincent Delcommene outraces the competition to win the fir...'. On the right side of the page, there are logos for 'Global partners' including 'BREITLING OFFICIAL WATCH', 'DHL', 'leaseweb reliable hosting', 'NOOSPHERE', and 'Aurora FLIGHT SCIENCES'.

## 2018 FAI S World Championships for Space Models

Nowy Targ, Poland

25 Aug to 02 Sep 2018

Information

Pictures

**Event ID:** 11406

**Event classification:** First Category Event

**Type of event:** World Championship

**Disciplines / Task Styles:**

S1B (Altitude Models - 2.51 to 5.00 NS) - seniors

S3A (Parachute Duration Models - 0 to 2.5 NS) - seniors

S4A (Boost Glider Duration Models 0 to 2.5 NS) - seniors

S5C (Scale Altitude Models) - seniors

S6A (Streamer Duration Models - 0 to 2.5 NS) - seniors

S7 (Scale) - juniors

S8E/P (Rocket Glider Duration and Precision Landing Models) - seniors

S9A (Gyrocopter Duration Models - 0 to 2.5 NS) - seniors

S1A (Altitude Models - 0 to 2.5 NS) - juniors

S3A (Parachute Duration Models - 0 to 2.5 NS) - juniors

S4A (Boost Glider Duration Models 0 to 2.5 NS) - juniors

S5B (Scale Altitude Models - 2.51 to 5.00 NS) - juniors

S6A (Streamer Duration Models - 0 to 2.5 NS) - juniors

S7 (Scale) - juniors

S8D (Rocket Glider Duration - 10.01 to 20.00 NS) - juniors

S8D (Rocket Glider Duration - 10.01 to 20.00 NS) - juniors

S9A (Gyrocopter Duration Models - 0 to 2.5 NS) - juniors

**Place:** Nowy Targ (Poland)

**Date(s):** 25 Aug to 02 Sep 2018



# NATIONAL ASSOCIATION OF ROCKETRY



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To search, type and hit enter

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Contest Flying

Rocketry Competition Overview

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U.S. Model Rocket Sporting Code

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Rules Revision Process

NARAM - The Nationals

Current Point Standings

Records

FAI Spacemodeling

## FAI SPACEMODELING

Construction & Techniques

European Motors

FAI World Championships Events

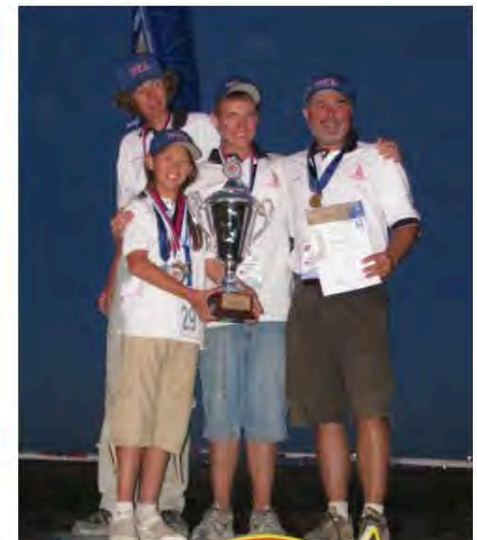
Flyoffs for U.S. Team Selection

Past U.S. Teams

Traveling and Operating Overseas

International competition brings together fliers from around the world for the highest level of challenge in the hobby. Outside the US, model rocket competition is very popular in eastern Europe, Russia and the other nations that were once part of the Soviet Union, parts of western Europe, the United Kingdom, China, Japan, and Canada. About 25 countries have teams that fly in international competition. International model rocket competition is organized under the auspices of the FAI (Federation Aeronautique Internationale), the international body for aerospace competition and records. Under their rules it is called "spacemodeling" (or as the Europeans spell it, "spacemodelling"). An overview of international spacemodeling is provided on the FAI web site (<http://www.fai.org/ciam-our-sport/s-space-models>).

International spacemodeling competition events are somewhat similar to NAR events (streamer duration, parachute duration, scale, and others). However, FAI events have model dimension and mass requirements that lead to models and construction



# The flyoffs: NARAM-59

- Contest Director: Mike Nowak