

JURY REPORT

ON FAI OPEN INTERNATIONAL WORLD CUP SPACE MODELS COMPETITION

Competition and competition classes scheduled	North Coast Cup 2024 (FAI Spacemodeling World Cup) S4A, S6A, S7, S9A, S8P (Open International Event) S1B, S3A, S5B, S5C, S8D
Date and venue	Held from 3 August 2024 through 5 August 2024 at the Hudson Rocket Ranch, Pueblo, Colorado USA
Organizer	National Association of Rocketry USA
Participating countries	4 total: USA (Eastern, Central, Mountain, Pacific Time Zones), Canada, Spain, China
Names and nationalities of FAI Jury members	<ol style="list-style-type: none"> 1. Taras Tataryn (Canada), Jury President 2. Trip Barber (USA) 3. James Duffy (USA) 4. Brian Muzek (USA) (S3A/S7 only)
Schedule of competition	<p>Friday, 2 August Contestant's Meeting/Model Check In at hotel 20:30 21:30</p> <p>Saturday, 3 August S3A, S4A, S6A, S9A Model Check in on field 7:30 – 16:00 800 – 900 S4A Sr/S3A Jr Round 1 900 – 1000 S4A Sr/S3A Jr Round 2 1000 – 1100 S4A Sr/S3A Jr Round 2 1100 – 1200 S9A Round 1 1200 – 1230 Lunch 1230 – 1330 S9A Round 2 1330 – 1430 S9A Round 3 1430 – 1530 S6A Sr/S4 Jr Round 1 1530 – 1615 S6A Sr/S4A Jr Round 2 1615 – 1700 S6A Sr/S4A Jr Round 3 2100 – 2130 S5 Model Pickup at Hotel</p> <p>Sunday, 4 August S1B, S3A, S6A, S8D Model Check in on field 7:30 – 16:00 800 – 900 S3A Sr/S6A Jr Round 1 900 – 1000 S3A Sr/S6A Jr Round 2 1000 – 1100 S3A Sr/S6A Jr Round 2 1100 – 1200 S5C Jr/S5 B Jr Round 1 1200 – 1230 Lunch 1230 – 1330 S5C Jr/S5 B Jr Round 2, S1B Round 1 1330 – 1430 S5C Jr/S5 B Jr Round 3, S1B Round 2 1430 – 1530 S1B Round 3, S8D Jr Round 1 1530 – 1615 S8D Jr Round 2, S4, S6, S9 Flyoffs if Necessary 1615 – 1700 S8D Jr Round 3, S3 Flyoffs if Necessary 1700 – 1800 S7 Model Pickup at Hotel 2000 – 2030 S7 Model Pickup at Hotel 2030 – 2100 Awards Ceremony at Hotel</p> <p>Monday, 5 August 730 – 1100 S7, S8P Model Check In on field 745 – 755 S8P Fliers meeting on field 800 – 1100 S8P 815 – 830 S8D Flyoffs if needed</p>

	830 – 1000 S7 Round 1 1000 – 1130 S7 Round 2 1145 – 1200 Awards Ceremony (S7, S8P, Meet Champion) on field
Duration of rounds	All event rounds 60 minutes except the following: S4A Jr/S3A Sr rounds 2-3, 45 minutes S8D rounds 2-3, 45 minutes S7, 90 minute rounds
Breaks between rounds	None except a 30 minute lunch break Saturday and Sunday.
Maximum duration in each round	60 minutes except S7 (90 minutes)
Interruptions and delays	None
Weather and visibility	Clear skies. Temperature ranged from 32-35 C.
Flight line - changes of position	Primary contest range used for all events except S8P, S8D, and S7, all of which had dedicated ranges.
Number of launching sites	Eighteen – Misfire Alley system used with Firing Control systems provided by competitors
Number of competitors per launching site/class	S1B Senior: 5 S1B Junior: 5 S3A Senior: 9 S3A Junior: 10 S4A Senior: 7 S4A Junior: 7 S5C Senior: 5 S5B Junior: 6 S6A Senior: 16 S6A Junior: 15 S7 Senior: 6 S7 Junior: 2 S8P Senior: 5 S8D Junior: 1 S9A Senior: 10 S9A Junior: 12
Local rules or deviations from the Sporting Code	Common motor box used for all events, except S7 Seniors. Only motors previously certified by NAR for use in USA containing no more than 30 gm of propellant per motor were permitted; all requirements of FAI Code were followed.
Alteration of the schedule	S2/P was not flown.
Any additional sporting activity	National Association of Rocketry Annual Meet and WSMC US Team Selection Flyoffs ran concurrently.
Observations on time-keeping and judging	Timers in general accordance of contest guidelines. Adrel altimeters were used for S1 and S5 and data was filtered with Adrel Windows 10 software.
Comments on ground facilities	Excellent. Field is located on a large area of open land with low ground cover.
Prize-giving and issue of results	Prizes were awarded based on event results. Locally produced awards given for each event and overall meet champion.
Any incident or accidents	None
Protests	None
Comments on accommodation, food, entry fees and other expenses	Excellent. Common motor box used for event. Entry fee \$50 included motors for all events.
Final comments and evaluation of the contest	Primary Contest Director: Matt Steele Assistant Contest Director: Dr. Mike Nowak Great sportsmanship. In addition to competitors from Canada, Spain, and China, there were USA competitors from four different time zones.

Pueblo, CO USA
05 August, 2024

FAI Jury:

Taras Tataryn

Mr. Taras Tataryn (Canada) President

Trip Barber

Trip Barber (USA)

James Duffy

James Duffy (USA)

Brian Muzek

Brian Muzek (USA)

FAI INTERNATIONAL SPACE MODELING WORLD CUP COMPETITION

2024 North Coast Cup

NAR

Pueblo, Colorado, USA

Date:

8/3/24

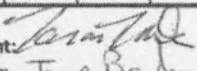
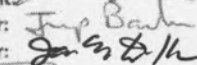
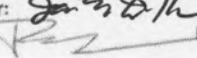
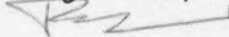
Class:

S4A

Wind Speed(m/s): 3-6

Temperature(*C): 32

No	St. No	Surname, Name	FAI ID	Country code	J/S	1st flight	2nd flight	3rd flight	fly-off	fly-off 2	Total	Place
1	64	JOHNSON, KEVIN	69335	USA	S	123	174	104	0	0	401	1
2	71	O BRYAN, DAVID	139302	USA	S	92	180	0	0	0	272	2
3	62	GNASS, FRITZ	16306	CAN	S	48	114	69	0	0	231	3
4	138	DAI, ZIXI	167501	USA	J	61	119	0	0	0	180	4
5	111	GOLDBERG, ETHAN	173887	USA	J	0	0	98	0	0	98	5
6	140	HE, CHLOE	172880	USA	J	16	0	42	0	0	58	6
7	130	JOHNSON ROURA, PAU	176319	ESP	J	18	0	0	0	0	18	7
8	107	CHEUNG, MAKAYO	176230	USA	J	0	17	0	0	0	17	8
9	53	CARSON, DONALD	134658	USA	S	10	0	0	0	0	10	9
10	58	FILLER, JIM	87674	USA	S	0	0	0	0	0	0	10
11	54	FLANIGAN, CHRIS	66984	USA	S	0	0	0	0	0	0	10
12	103	BALA, ROHAN	165674	USA	J	0	0	0	0	0	0	10
13	122	WANG, PATRICK	165264	USA	J	0	0	0	0	0	0	10
14	51	BALA, PRANAV	173084	USA	S	0	0	0	0	0	0	10
15	108	ELLISON, KELSEY	174959	USA	J	0	0	0	0	0	0	10
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Jury President:  TATARYN, TARAS CAN
 Jury Member:  BARBER, TRIP USA
 Jury Member:  DUFFY, JAMES USA
 RSO:  HOICHEIMER, JOHN USA

FAI INTERNATIONAL SPACE MODELLING WORLD CUP COMPETITION

2024 North Coast Cup

NAR

Pueblo, Colorado, USA

Date:

8/3/24

Class:

S6A

Wind Speed(m/s): 3-6

Temperature(*C): 35

No	St No	Surname, Name	FAI ID	Country code	J/S	1st flight	2nd flight	3rd flight	fly-off	fly-off 2	Total	Place
1	69	KRISTAL, EMMA	68239	USA	S	56	147	62	0	0	265	1
2	71	O BRYAN, DAVID	139302	USA	S	79	100	52	0	0	231	2
3	136	WEN, MICHAEL	120362	USA	J	47	85	60	0	0	192	3
4	111	GOLDBERG, ETHAN	173887	USA	J	50	45	94	0	0	189	4
5	76	VINYARD, KEITH	68201	USA	S	71	46	48	0	0	165	5
6	138	DAI, ZIXI	167501	USA	J	43	42	70	0	0	155	6
7	127	ZHANG, JUNHAO	168568	CHN	J	44	71	37	0	0	152	7
8	139	DAI, ZICHUN	167500	USA	J	37	66	35	0	0	138	8
9	103	BALA, ROHAN	165674	USA	J	37	46	51	0	0	134	9
10	83	DONG, HONFENG	128691	CHN	J	38	63	32	0	0	133	10
11	107	CHEUNG, MAKAYO	176230	USA	J	43	46	34	0	0	123	11
12	140	HE, CHLOE	172880	USA	J	40	36	43	0	0	119	12
13	130	JOHNSON ROURA, PAU	176319	ESP	J	29	36	37	0	0	102	13
14	122	WANG, PATRICK	165264	USA	J	0	29	68	0	0	97	14
15	62	GNASS, FRITZ	16306	CAN	S	42	54	0	0	0	96	15
16	105	BERBERICH, ISAIAH	169578	USA	J	25	24	19	0	0	68	16
17	132	BARR, LAYTON	176301	USA	J	18	23	26	0	0	67	17
18	115	NAVIN, ADITYA	171450	USA	J	20	17	28	0	0	65	18
19	133	BARR, RYLAN	166197	USA	J	21	22	17	0	0	60	19
20	51	BALA, PRANAV	173084	USA	S	31	18	0	0	0	49	20
21	108	ELLISON, KELSEY	174959	USA	J	19	17	9	0	0	45	21
22	66	KREUTZ, ROBERT	87146	USA	S	42	0	0	0	0	42	22
23	75	STEELE STEWART, CASSIDY	166407	USA	S	0	38	0	0	0	38	23
24	78	TOBIN, BARBARA	174726	USA	S	17	0	0	0	0	17	24
25	57	STEELE, MATT	68200	USA	S	0	0	0	0	0	0	25
26	58	FILLER, JIM	87674	USA	S	0	0	0	0	0	0	25
27	68	KRISTAL, STEVE	68196	USA	S	0	0	0	0	0	0	25
28	70	MUZEK, BRIAN	135793	USA	S	0	0	0	0	0	0	25
29	137	JIANG, YUXAUAN	172905	USA	J	0	0	0	0	0	0	25
30	88	KUCZEK, KEVIN	91282	USA	S	0	0	0	0	0	0	25
31	81	WILLARD, TERRILL	68218	USA	S	0	0	0	0	0	0	25
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Jury President: *Taras Tataryn* FATARYN, TARAS CAN
 Jury Member: *Tripp Barber* BARBER, TRIP CAN
 Jury Member: *James Duffy* DUFFY, JAMES CAN
 RSO: *John Hocheimer* HOCHHEIMER, JOHN USA

2024 North Coast Cup

NAR

Pueblo, Colorado, USA

Date: 8/5/24

Class: **S8P** Wind Speed(m/s): 4-8 Temperature(*C): 35

No	St. No	Surname, Name	FAI ID	Country code	J/S	1st flight	2nd flight	3rd flight	4th flight	fly-off	fly-off 2	Total	Place
1	72	RIEBESEHL, GEORGE	75152	USA	S	1000.0	1000.0	720.4	968.4	0.0	0.0	3688.8	1
2	84	SONG, CHENGLIE	90628	CHN	S	699.8	989.0	1000.0	1000.0	0.0	0.0	3688.7	2
3	76	VINYARD, KEITH	68201	USA	S	963.7	947.0	811.1	873.5	0.0	0.0	3595.3	3
4	70	MUZEK, BRIAN	135793	USA	S	479.4	609.3	430.7	770.8	0.0	0.0	2290.2	4
5	71	O BRYAN, DAVID	139302	USA	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
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FAI INTERNATIONAL SPACE MODELLING WORLD CUP COMPETITION

2024 North Coast Cup

NAR

Pueblo, Colorado, USA

Date:

8/3/24

Class:

S9A

Wind Speed(m/s): 3-6

Temperature(*C): 35

No	St No	Surname, Name	FAI ID	Country code	J/S	1st flight	2nd flight	3rd flight	fly-off	fly-off 2	Total	Place
1	127	ZHANG, JUNHAO	168568	CHN	J	79	180	50	0	0	309	1
2	111	GOLDBERG, ETHAN	173887	USA	J	142	49	77	0	0	268	2
3	137	JIANG, YUXAUAN	172905	USA	J	64	28	156	0	0	248	3
4	70	MUZEK, BRIAN	135793	USA	S	0	180	37	0	0	217	4
5	123	XU, KANGZHI	165209	CHN	J	0	180	0	0	0	180	5
6	53	CARSON, DONALD	134658	USA	S	52	98	0	0	0	150	6
7	71	O BRYAN, DAVID	139302	USA	S	68	76	0	0	0	144	7
8	58	FILLER, JIM	87674	USA	S	48	47	30	0	0	125	8
9	105	BERBERICH, ISAIAH	169578	USA	J	43	56	24	0	0	123	9
10	139	DAI, ZICHUN	167500	USA	J	0	46	66	0	0	112	10
11	107	CHEUNG, MAKAYO	176230	USA	J	28	26	47	0	0	101	11
12	133	BARR, RYLAN	166197	USA	J	27	29	28	0	0	84	12
13	103	BALA, ROHAN	165674	USA	J	42	41	0	0	0	83	13
14	51	BALA, PRANAV	173084	USA	S	54	23	0	0	0	77	14
15	78	TOBIN, BARBARA	174726	USA	S	22	22	28	0	0	72	15
16	132	BARR, LAYTON	176301	USA	J	0	41	0	0	0	41	16
17	57	STEELE, MATT	68200	USA	S	0	0	0	0	0	0	17
18	62	GNASS, FRITZ	16306	CAN	S	0	0	0	0	0	0	17
19	54	FLANIGAN, CHRIS	66984	USA	S	0	0	0	0	0	0	17
20	130	JOHNSON ROURA, PAU	176319	ESP	J	0	0	0	0	0	0	17
21	108	ELLISON, KELSEY	174959	USA	J	0	0	0	0	0	0	17
22	81	WILLARD, TERRILL	68218	USA	S	0	0	0	0	0	0	17
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Jury President: *Tataryn* TATARYN, TARAS CAN
 Jury Member: *Barber* BARBER, TRIP USA
 Jury Member: *Duffy* DUFFY, JAMES USA
 RSO: *Hocheimer* HOICHEIMER, JOHN USA

FAI INTERNATIONAL SPACE MODELLING WORLD CUP COMPETITION

2024 North Coast Cup

NAR

Pueblo, Colorado, USA

Date:

8/5/24

Class: S7

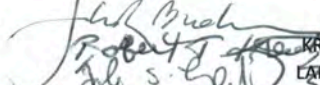
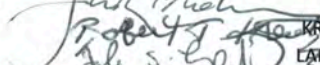
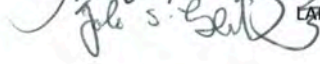
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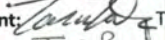
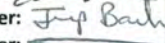


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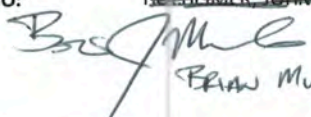
Temperature(*C):

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No	St. No	Surname, Name	FAI ID	Country code	J/S	Prototype	Static Score	1st flight	2nd flight	Best flight	Total	Place
1	107	CHEUNG, MAKAYO	176230	USA	J	Saturn 1B	361	67	0	67	428	1
2	62	GNASS, FRITZ	16306	CAN	S	Black Brant IV	268	97	0	97	365	2
3	135	OTERO, NICOLAS	176256	USA	J	Saturn 1B	258	67	0	67	325	3
4	75	STEELE STEWART, CASSIDY	166407	USA	S	Arcas	239	80	0	80	319	4
5	57	STEELE, MATT	68200	USA	S	SLS Artemis 1	340	0	0	0	0	5
6	58	FILLER, JIM	87674	USA	S	Black Brant IIIB	306	0	0	0	0	5
7	54	FLANIGAN, CHRIS	66984	USA	S	Long March 3B/E	402	0	0	0	0	5
8	56	DUFFY, JAMES	68211	USA	S	Bumper WAC	380	0	0	0	0	5
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Chief Judge:  BROHM, JOHN
 Judge:  KREUTZ, ROBERT
 Judge:  LANGFORD, JOHN

Jury President:  TATARYN, TARAS CAN
 Jury Member:  BARBER, TRIP USA
 Jury Member:  DUFFY, JAMES USA
 RSO:  PFEIFFER, JOHN USA

 BRIAN MUZEK, USA
