



June 30



Standard
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NatsNews

Indoor Free Flight

For all intents and purposes, F1D ended in a battle royale between Kang Lee and John Kagan. Kang dialed in his plane during the earlier hours using partial motors and a golf range finder to accurately measure altitude. He achieved an 18-minute half motor at 70 feet, which should produce 36 minutes just under the ceiling—plenty to move into first. With his configuration settled, Kang headed back to his table to make and pre-wind a set of motors while he waited for the calm evening air.

John put up a series of Hand-Launched Stick flights using his F1D to incrementally ease his way up to the ceiling. He got up to 34:19 with approximately 20 feet of altitude and 300 turns left. A slightly lower high pitch, and Kagan was ready for the final F1D flights.

Kang and John played a little cat and mouse as they wanted the best air, but also couldn't run out of time to get up to at least two flights. They watched other's models to see how the drift was doing, and finally, at 8 p.m., John grabbed a timer and headed out to the launch area. Kang immediately followed and set up his launch station right next him.

John went up first, and Kang followed 1:55 minutes later. At this hour, the drift from half altitude up to about 3 feet below the tiles is toward the west. Once you get up next to the ceiling, the drift shifts to a strong jet stream toward the east.

Kang passed John at about 100 feet and was quickly up in the jet stream. Kagan eased up more delicately, but still got

right to the top. With the airplanes so close to the ceiling, there was no room to steer, and both models drifted through the curtain-rod wires—John's hit one of the cables and dropped about 8 feet before coming loose.

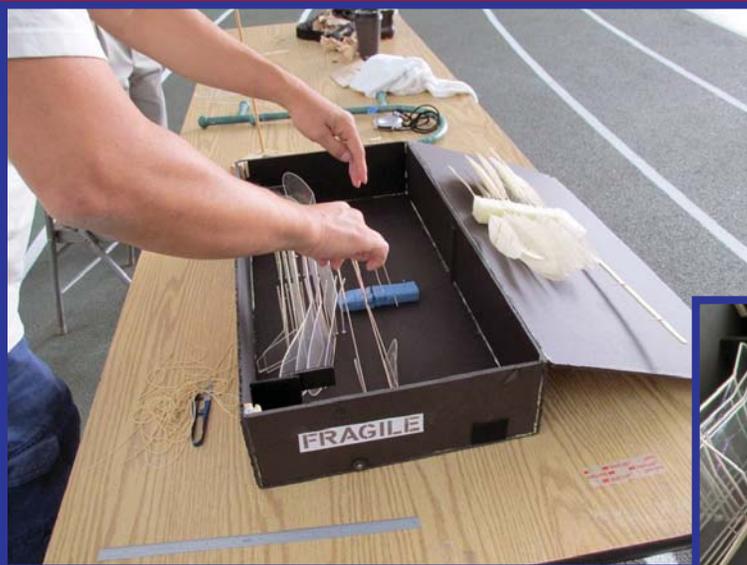
Now in the center section, lots more steering and strategy ensued. Kang ran through a couple of balloons getting his model out of danger and caused a little damage to his stabilizer. John landed with yet another 34-plus-minute flight and Kang's damaged model was a few minutes shorter.

The Kibbie Dome air at 9 p.m. is significantly different, and both models flew with no steering required. John bumped up his time with a 35:01. Kang had a trim issue and descended slightly nose-down, burning off turns for 33:16. Save a miracle sixth flight, John Kagan has squeaked out a National Championship.

Leo Pilachowski has a commanding lead in F1L, but it has been an entertaining trip. He stomped around when one flight hung on the curtain wires. Another drifted toward the west end, and after a few missed steers Leo lamented, "I screwed up! More than anyone has ever screwed up before!" Kang came to the rescue, though, and all's well that ends well. Leo got his model back, and I don't see anyone catching him.

One day left, and lots of action happens during the last flights. Check out the final installment of the Indoor FF *NatsNews* to see what happens.

—John Kagan



Kang Lee's EZB models.



Indoor Free Flight

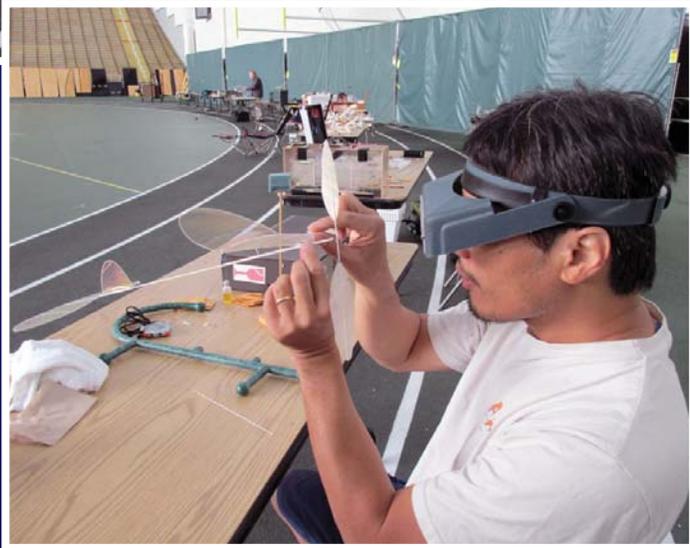


Zevi Aronstein winds his SAVOIA-MACHETTI SM79.



Indoor Free Flight

Kang Lee brought out his model-of-the-year EZB.



Emil Schutel.



Larry Norvall.



Dave Aronstein and his Tupolev A.N.T. 25.



Indoor Free Flight Scores

FAC NoCal							
Name	AMA #	Aircraft	Flight 1	Flight 2	Flight 3	Best	Place
Lawrence Coslick	4652		2:40	3:20	3:01	3:20	1
Jim Alderson	84060		2:20	2:23		2:23	2
Richard Wood	43798		1:09			1:09	3

FAC Scale													
Name	AMA #	Aircraft	Const. Det.	Color & Markings	Work.	Scale Score	Bonus Points	1st Flight	2nd Flight	3rd Flight	Flight Points	Total Points	Place
Jim Alderson	84060	J3 Cub	29	18	11.0	58.0	0	40	49		49.00	107.00	3
James Alderson	84061	Cessna Airmaster	27	16	11.0	54.0	0	84	113		80.75	134.75	2
Gene Stubbs	170176	Wright Kitty Hawk	21	15	10.0	46.0	53	21	40		40.00	139.00	1

HLG														
Name	AMA #	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Flight 6	Flight 7	Flight 8	Flight 9	Best	2nd Best	Total	Place
Robert Romash	130061													DNF
Bruce Kimball	59849	69.6	72.2	13.0	67.7	71.8	74.0	63.0	74.6	75.6	75.6	74.6	150.2	1
Edward Berray	4670													DNF
#REF!	#REF!													DNF
John T Warren	57150													DNF
Gene Stubbs	170176	40.8	42.8	39.6	41.6						42.8	41.6	84.4	2

Int Stick									
Name	AMA #	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place	
Lawrence Coslick	4652	29:16					29:16	1	
Ray Harlan	131						DNF		

LPP									
Name	AMA #	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place	
Edward Berray	4670						DNF		
Chris Borland	1372	8:33	8:23	7:59	9:43	8:27	9:43	3	
Richard Wood	43798	12:00					12:00	2	
Larry Norval	17628	8:13	8:19				8:19	4	
Robert Romash	130061						DNF		
Michael Altig	817937	10:43	10:38	11:42	12:06		12:06	1	
Stephen Brown	128759						DNF		
Gene Stubbs	170176	7:59					7:59	5	
Leo Pilachowski	881801						DNF		

Unl. Cat														
Name	AMA #	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Flight 6	Flight 7	Flight 8	Flight 9	Best	2nd Best	Total	Place
Bruce Kimball	59849	79.8	80.3	84.7	79.8	83.3	80.0				84.7	83.3	168.0	1
Robert Romash	130061													DNF
Gene Stubbs	170176	37.1	36.2	34.9	41.4	39.9	39.2	45.5	39.7		45.5	41.4	86.9	2
John T Warren	57150													DNF
Larry Norval	17628													DNF

Sportsman LPP									
Name	AMA #	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place	
Zevi Aronstein (Jr)	944297	3:49	8:29	7:16	8:42		8:42	1	
Richard Wood	43798						DNF		

Manhattan									
Name	AMA #	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place	
David Aronstein	97976	8:23	9:15	4:32	9:45		9:45	1	
Lawrence Coslick	4652	4:16	7:17	9:29			9:29	2	

Indoor Free Flight Scores

Ministick								
Name	AMA #	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Chris Borland	1372						DNF	
Nick Ray	770974	8:15	12:23	11:39	13:21	13:25	13:25	1
Andrew Tagliafico	5533						DNF	
David Aronstein	97976	7:40	9:47	6:45	0:02	8:37	9:47	2
Robert Romash	130061						DNF	
John T Warren	57150						DNF	
Richard Wood	43798	8:15					8:15	3
Leo Pilachowski	881801						DNF	
Larry Norval	17628	7:06					7:06	4
Stephen Brown	128759						DNF	
Gene Stubbs	170176						DNF	

Towline Glider								
Name	AMA #	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Ray Harlan	131	2:30	2:39				2:39	1



Told you Standard
Catapult was
serious business!





Larry Norvall
preps for F1D.