

FlightLine

A Monthly Publication of Collins Model Aviators

May 1996

☞ **Reminder:** May's CMA meeting is Thursday the 2nd. Rich Dean will present *Landings aren't optional* a talk on "Smoothing out those landings". New flyers shouldn't miss this one.

Its better late than never for April's beauty contest

by Jim Doty

Not many people were able to show up for April's CMA meeting so the beauty contest was postponed until the build session a week later. Turnout the second time around was much better. Four completed planes competed for the honors of most "beautiful" model. (see page 2)



May's Featured Model — John Crilley's Sig Liberty Sport won first place in the April Beauty Contest.

May's featured model

John Crilley just joined the club in April and already he's making a splash. His gorgeous Liberty Sport won the April Beauty Contest. The model's finish was very good with the painted forward section of the fuselage matched perfectly to the Monocoated rear section.

Its important to remember the building a biplane nearly doubles the time building wings.

J. H. Doty, FlightLine Editor ➔

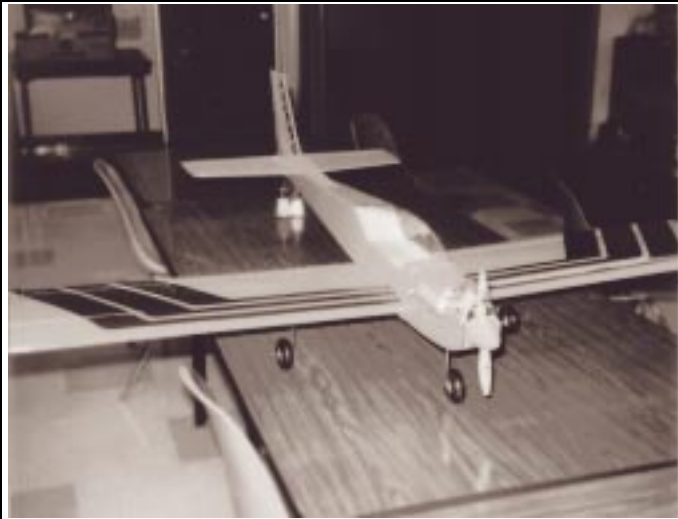


Rich Dean took second place in the beauty contest with his Sig Fazer. The bright yellow covering really set off the lines of this profile model

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The planes all looked great. It looks like there has been a lot of building going on over the winter. I can't wait to see these beauties in the air.



Irv Anderson earned third with his Goldberg Tiger 2, another beauty in yellow. He used a rotary cutter (normally used to cut cloth) to cut out the wing stripes.



Basil Tilley brought home fourth with his Cessna 182. Rivet and panel lines were pre-printed on the wing for a more scale look.

Rich dean brought his OV-10 Bronco and Sea Cat, both still under construction.

The Bronco will require a lot of servos and some work in actuating the elevator up there on the twin tails booms. Rich plans on using a torsion rod to couple the pushrod up to the top of the tail. It looks like a good approach.



Rich Dean's OV-10 Bronco is starting to fill out. He brought the fuselage, wing, elevator and one of the tail booms to the build session.

J. H. Doty, FlightLine Editor ➔

Minutes of the April CMA meeting by Duane Smith

The April meeting of the CMA was called to order by President John Michael.

Treasurers report: \$530.19 as of the first of April.

Old business

Tom DeWulf reported that there may not be a restriction on membership for non Rockwell employees . Tom will Follow up and contact Sandy.

New business

Rich Dean made a motion to start a field search committee. motion passed. Field search committee: Rich Dean, Irv Anderson, and Duane Smith

Duane Smith asked for volunteers to mow the grass at the field. A sign up sheet was passed for members to sign up. If any one would like to help with the mowing contact Duane.

Sandy has asked if the club would have a display at the duck pond Wednesday May 22. The club agreed whether permitting.

Training on Tuesday night and Saturdays call 8888 before going to the field.

Mark Woytassek suggested we send our newsletter to the AMA.

The annual beauty contest was reset for next Thursday.

Duane Smith, CMA Secretary ➔

Servo List:

Mark Woytassek found this list of servo specs. It should help in comparing different brands of servos

AIRTRONICS SERVOS

NUMBER	DESCRIPTION	SIZE	WEIGHT	SPEED	TORQUE	FEATURES
AIR4102	STANDARD SMT HD	1.54 X .79 X 1.42	1.59	22	50	STANDARD
AIR4322	STANDARD BB	1.54 X .79 X 1.42	1.59	22	50	SGL BALL BEARING
AIR4141	MICRO BB SERVO	1.42 X .60 X 1.29	1.17	20	45	CORELESS, SGL BB, METAL OUTPUT
AIR4145	MICRO BB	1.42 X .60 X 1.29	1.10	07	33	SGL BB, ALL ALUM METAL GEARS
AIR4155	PRO HIGH SPEED	1.54 X .79 X 1.48	2.07	07	75	CORELESS, DBL BB, ALUM GEARS
AIR4156	PRO HIGH TORQUE	1.54 X .79 X 1.48	2.10	10	110	CORELESS, DBL BB, ALUM GEARS
AIR4161	PRO LARGE SCALE	1.54 X .79 X 1.65	2.50	25	135	DBL BB, METAL GEARS
AIR4407	MICRO ELECTRIC HELI	1.23 X .60 X 1.23	.96	23	29	SGL BB, METAL GEAR
AIR4555	MICROLITE	1.07 X .50 X 1.07	.58	21	30	CORELESS WI ALUMINUM GEARS
AIR4510	HIGH TORQUE	1.87 X .90 X 1.54	2.30	33	110	CORELESS, SGL BB
AIR4581	SAIL WINCH	3.55 X 1.58 X 4.18	.94	5.0	170	SAIL WINCH, H2O RESISTANT
AIR4732	CONTEST BB	1.54 X .79 X 1.38	1.80	19	68	CORELESS, DBL BB
AIR4734	CONTEST BB	1.54 X .79 X 1.38	1.73	40	74	CORELESS, DBL BB, RETRACT
AIR4735	CONTEST BB HELI	1.54 X .79 X 1.38	1.80	20	75	CORELESS, DBL BB
AIR4737	CONTEST BB HI-SPEED	1.54 X .79 X 1.38	1.95	15	57	CORELESS, DBL BB, METAL GEARS
AIR4738	CONTEST BB CAR	1.54 X .79 X 1.38	1.95	21	71	CORELESS, DBL BB, METAL GEARS
AIR4739	CONTEST PROPO RETRACT	1.54 X .79 X 1.38	1.77	42	74	RETRACT, DBL BB, METAL GEARS
AIR4741	CONTEST BB STANDARD	1.54 X .79 X 1.38	1.80	21	57	DBL BB
AIR4831	MINI BALL BEARING	1.46 X .71 X 1.18	1.10	21	38	SGL BB, MINI

FUTABA SERVOS

NUMBER	DESCRIPTION	SIZE	WEIGHT	SPEED	TORQUE	FEATURES
FUTS148	SMT STANDARD	1.59 X .77 X 1.41	1.50	22	42	STANDARD HD SERVO
FUTS132H	HIGH SPEED MINI BB	1.43 X .68 X 1.18	1.10	13	25	SGL BB HIGH SPEED
FUTS134G	HD RETRACT	2.32 X 1.14 X 1.97	2.80	33	173.8	1/4 SC RETRACT
FUTS136G	COMPACT RETRACT	1.75 X .87 X 1.00	1.48	50	76.4	LOW PROFILE RETRACT
FUTS3003	STANDARD SERVO	1.41 X .77 X 1.59	1.50	22	42	STANDARD ECONO SERVO
FUTS3101	MICRO	1.10 X .50 X 1.17	.60	18	34.7	MICRO SERVO
FUTS3303	HD 1/4SC HI TORQUE	2.33 X 1.13 X 1.96	3.77	26	194	HI TORQUE 1/4 SCALE SERVO
FUTS5101	BALL BEARING SMT	1.52 X .77 X 1.36	1.40	24	55.6	DBL BB, HIGH PERFORMANCE
FUTS5102	MICRO W/METAL GEARS	1.06 X .50 X 1.12	.80	22	27.8	MICRO METAL GEARS
FUTS9001	BB CORELESS	1.59 X .78 X 1.48	1.70	22	54.2	BB, CORELESS
FUTS9101	BB CORELESS	1.55 X .77 X 1.36	1.17	17	41.7	DBL BB, CORELESS
FUTS9102	MICRO BB CORELESS	1.85 X .87 X 1.05	1.60	13	50	MICRO, SGL BB, WING MOUNT
FUTS9202	SMT HT BB	1.59 X .79 X 1.40	1.70	22	69.5	DBL BB, CORELESS
FUTS9203	HELI HT BB	1.59 X .79 X 1.48	1.90	11	76.4	BB, CORELESS HELI
FUTS9304	CORELESS HI-TORQUE BB	1.59 X .79 X 1.40	1.70	22	69.5	DBL BB, CORELESS
FUTS9303	BB SMT	1.59 X .79 X 1.55	2.30	19	99	DBL BB, CORELESS, METAL GEARS
FUTS9402	HIGH TORQUE BB	1.59 X .79 X 1.48	1.90	16	111.1	CORELESS, HIGH TORQUE & SPEED
FUTS9403	MINI BB	1.59 X .79 X 1.40	1.70	16	44.5	SGLBB, CORELESS
FUTS9601	MINI BB	1.21 X .62 X 1.16	1.10	17	36.1	SGL BB, CORELESS, MET OUTPUT
FUTS3001	STANDARD BB	1.59 X .77 X 1.41	1.60	22	42	SGL BB, STANDARD
FUTS3002	MINI SMT METAL GEAR	1.21 X .62 X 1.16	1.80	16	44	DBL BB, METAL GEARS
FUTS3302	HD QS SMT	2.32 X 1.14 X 1.97	3.60	19	110	1/4 SC HIGH TORQUE, METAL GEAR

HITEC SERVOS

NUMBER	DESCRIPTION	SIZE	WEIGHT	SPEED	TORQUE	FEATURES
HTCS060	SUPER MICRO	90 X .50 X 1.00	.49	20	16	SUPER COMPACT
HTCS080	SUB MICRO	1.10 X .50 X 1.10	.62	15	31	MICRO PLASTIC GEARS
HTCS080MG	SUB MICRO W/METAL GEAR	1.10 X .50 X 1.10	.76	15	31	MICRO, METAL OUTPUT
HTCS101	MINI	1.30 X .50 X 1.20	.93	20	24	MINI PLASTIC GEARS
HTCS101 MG	MINI W/METAL GEAR	1.30 X .50 X 1.20	1.07	20	24	MINI METAL OUTPUT
HTCS205	SUPER MINI BB	1.30 X .60 X 1.30	1.10	20	44	SGL BB
HTCS205MG	SUPER MINI BB	1.30 X .60 X 1.30	1.30	20	44	SGL BB, METAL GEAR
HTCS300	STANDARD SERVO	1.60 X .80 X 1.40	1.57	19	42	STANDMD HD
HTCS422	PRO SERVO	1.60 X .80 X 1.40	1.65	20	43	DUAL OILITE OUTPUT BEMINGS
HTCS425	PRO SERVO BB	1.60 X .80 X 1.40	1.65	20	43	DBL BB
HTCS525BB	PRECISION HIGH SPEED	1.50 X .8 X 1.40	1.75	16	46.2	SGL BB
HTCS545BB	PRECISION HIGH TORQUE	1.50 X .8 X 1.40	1.75	21	61.6	SGL BB

HITEC SERVOS (continued)

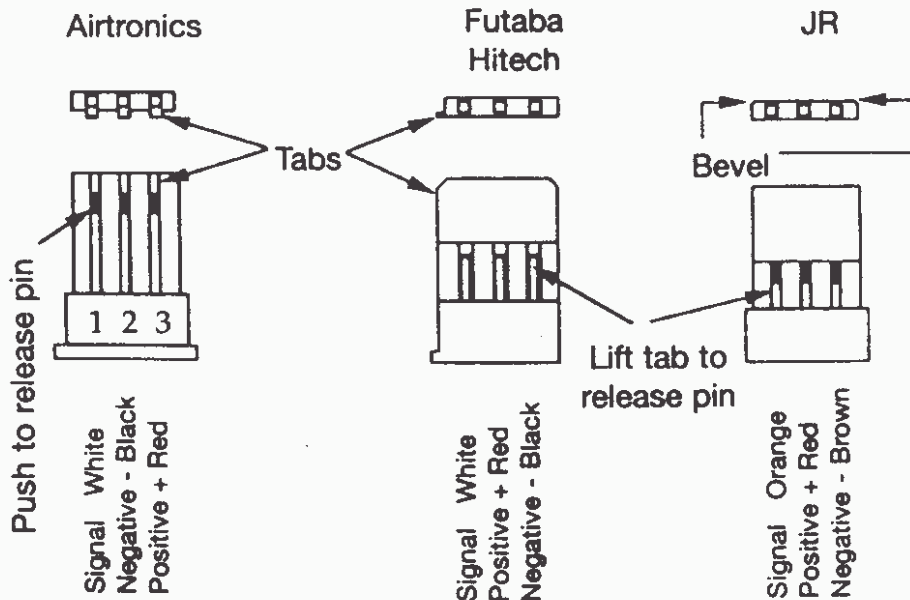
NUMBER	DESCRIPTION	SIZE	WEIGHT	SPEED	TORQUE	FEATURES
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HTC605BB ULTRA TORQUE	1.60 X .80 X 1.50	1.73	16	77	DBL, BB
HTCS605MG HIGH TORQUE	1.60 X .80 X 1.50	2.12	16	77	DBL BB, METAL GEM
HTCS61 SMG ULTRA TORQUE	1.60 X .80 X 1.50	2.12	21	107	DBL BB, METAL GEM
HTCS700 1/4 SCALE	2.30 X 1.10 X 2.0	3.60	22	133	SGL BB
HTCS705MG 1/4 SCALE HI-TORQUE	2.30 X 1.10 X 2.0	4.00	27	161	SBL BB, METAL GEM
HTCS75BB RETRACT SERVO	1.70 X .90 X 1.00	1.30	50	90	SGL BB
HTCS805 MEGA SERIES	2.20 X 1.20 X 2.40	4.20	20	224	BALL BEARING SUPER HW DUTY

JR RADIO SYSTEMS

NUMBER	DESCRIPTION	SIZE	WEIGHT	SPEED	TORQUE	FEATURES
JRSS3021	MINI BB	1.30 X .58 X 1.00	84	22	37.5	DBL BB, CORELESS
JRSS321	MINI BB	1.30 X .58 X 1.00	77	23	29.2	SGL BB
JRSS3321	GLIDER BB	1.30 X .58 X 1.30	95	36	59.8	DBL BB CORELESS
JRSS341	MICRO	1.12 X .50 X 1.17	63	24	31.9	
JRSS4000	PRECISION BB	1.32 X .73 X 1.52	1.76	19	73.6	DBL BB, CORELESS
JRSS901	MIDI BB	1.37 X .71 X 1.32	1.50	22	57.5	DBL BB, CORELESS
JRSS9021	MINI BB	1.30 X .58 X 1.00	95	15	29.2	DBL BB, 1/12SC CAR, CORELESS
JRS53025	MINI HIGH SPEED BB	1.52 X .73 X 1.32	1.50	23	90.4	DBL BB, CORELESS
JRSS4131	BB SERVO	1.52 X .73 X 1.32	1.72	22	119.6	DBL BB, CORELESS
JRSS4721	STANDARD BB	1.52 X .73 X 1.32	1.72	15	90	DBL BB, CORELESS
JRSS4735	H.S. BB	1.52 X .73 X 1.32	1.72	15	90	DBL BB, CORELESS
JRSS7005	LOW PROFILE BB	1.73 X .88 X .93	1.31	19	62.6	DBL BB, CORELESS, LOW PROFILE
JRSS507	HI-SPEED SPORT	1.52 X .73 X 1.32	1.47	25	40.3	STANDMD SERVO
JRSS517	HI SPEED BB	1.52 X .73 X 1.32	1.58	25	40.30	SGL BB
JRSS605	MONSTER BB	2.50 X 1.26 X 2.30	4.75	28	139.1	DBL BB
JRSS513	RETRACT	1.52 X .73 X 1.32	1.72	1.25	66.77	SGL BB, 180° RETRACT
JRSS7000	LOW PROFILE BB	1.73 X .88 X 1.0	1.45	19	62.6	DBL BB, CORELESS COMPETITION
JRSS703	LOW PROFILE RETRACT	1.73 X .88 X .93	1.16	1.36	93.2	DBL BB, LP 180° RETRACT

Servo Pin - Outs



Local Activities:

CEDAR RAPIDS - SKYHAWKS

SATURDAY JULY 13
MARION AIRPORT

R/C COMBAT!!!
FLYING STARTS AT 10:00

PRIZES FOR ALL PILOTS COMPETING

**2 CLASSES BY ENGINE SIZE
UP TO .25 AND .26 - .46
FRONT INTAKE SIDE EXHAUST
NO TUNED PIPES
5 POUND MAX AIRCRAFT WEIGHT
\$5.00 REGISTRATION FEE PER CLASS
PLEASE CALL TO PRE-REGISTER**

THANKS TO:
R/C ADVENTURES
PEPSI COLA
C. R. SKYHAWKS

FOR MORE INFO AND A
FULL COPY OF THE
RULES PLEASE
CALL

SCOTT GRADY 366-4309
OR
KYLE FRIAUF 364-3289

**NATIONAL
FLOAT FLY '96**

JULY 19-21

**GREATER OTTUMWA PARK
OTTUMWA, IOWA**

WE'RE READY TO GO AGAIN SO BRING
YOUR FLOAT PLANES AND JOIN US
FOR SOME FUN AND EXCITEMENT AT
NATIONAL FLOAT FLY '96.

The event will be held in conjunction with
19TH ANNUAL OTTUMWA PRO BALLOON RACES
and will include carnival rides, live music, food
venders and many other attractions ON-SITE.
NATIONAL FLOAT FLY '96 will feature a flying
site with 20 acres plus over water. Numerous
prizes will be awarded and the first fifty entrants
will be eligible for a drawing of a HOT AIR
BALLOON RIDE (subject to weather and final
Balloon pilot approval).

The event will be AMA sanctioned by the
OTTUMWA R/C FLYERS, sponsored by
HOBBY CHEST and feature guest announcer
JIM VAN LOO.

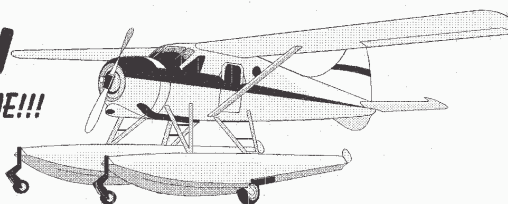
For information contact HOBBY CHEST (515-683-4436)

**C.R. SKYHAWKS SEMI - ANNUAL FLOAT FLY
HANNON LAKE PARK
BLAIRSTOWN, IOWA**

MAY 17TH THRU 19TH

R/C AIRPLANES, BOATS, AND SAILBOATS WELCOME!!!

MUFFLERS REQUIRED!!!



BRING YOUR R.V. TENT OR SLEEPING BAG !!!!
PLENTY OF CAMPING AVAILABLE

LUNCH WILL BE PROVIDED AT NOON SATURDAY AND SUNDAY

OPEN FLYING TIMES: WEATHER PERMITTING

FRIDAY, 6:00 PM - 8:00 PM

SATURDAY 10:00 AM - 12:00 PM, 1:30 PM - 3:00 PM, 6:00 PM - 8:00 PM

SUNDAY 10:00 PM - 12:00 PM, 1:30 PM - 3:00 PM

FOR MORE INFORMATION CONTACT: KEN SHERWOOD 366-1164 OR KYLE FRIAUF 364-3289



Heads Up, CMA Activities

Thursday, May 2, 4:45 pm—Club Meeting

Friday, May 24, 5 pm—FlightLine Deadline

Thursday, June 6, 4:45 pm—Club Meeting

Friday, June 21, 5 pm—FlightLine Deadline

Note: All meetings and build sessions are held in the 35th street N.E. Facility (main plant) Cafeteria building 140, unless otherwise noted

FlightLine deadlines are flexible if you can let me know ahead of time what to expect

→ Flight Training

Flight Training is available every Tuesday and Thursday night weather permitting.

Tuesdays — Beginner training

Thursdays — Advanced training

Check the CMA Hotline 395-8888 for the latest updates on the training sessions.

In case of bad weather on Tuesdays Thursday will be used for both sessions.

On Saturday mornings with good weather there will usually be someone available to provide additional training.

🕒 1996 CMA Staff

President:	John Michael
Vice President:	Tom DeWulf
Secretary/Treasurer:	Duane Smith
FlightLine Editor:	Jim Doty
Web Page Editor:	Tom DeWulf

Flight Instructors:
 Rich Dean
 Dave Decker
 Dave Dillman
 Mark Woytassek

Flight Instructors in training:
 Irv Anderson
 Tom DeWulf

Test Pilots for first flights of new airplanes:
 Rich Dean
 Mark Woytassek

GREATER
DES MOINES



P.O. BOX 498, ANKENY, IA 50021 • 515-964-2000

→ Local Activities

May 17-19 — C.R. Skyhawks Annual Float Fly
 at Hannon Lake Park,
 Blairstown, Iowa.
 Call: Ken Sherwood 366-1164
 or Kyle Friauf 364-3289

July 13 — C.R. Skyhawks R/C Combat
 at Marion Airport,
 Marion, Iowa.
 Call: Scott Grady 366-4309
 or Kyle Friauf 364-3289

July 17-21 — Greater Des Moines Aviation Expo '96
 at Ankeny Exposition Park,
 Ankeny, Iowa.
 Call: Raymond Pick (515) 964-2000

July 20, 6 pm — Aviation Expo R/C Auction
 at Ankeny Exposition Park,
 (registration tent)
 Ankeny, Iowa.
 Call: Chuck Blake (515) 967-5079

July 19-21 — National Float Fly '96
 at Greater Ottumwa Park,
 Ottuma, Iowa.
 Call: Hobby Chest (515) 683-4436

✍ Send your input for FlightLine to:

James H. Doty
 MS 124-300
 x2931
jhdoty@crems.rockwell.com



Send your input for the CMA Web Page to:

Tom DeWulf
tvdewulf@cacd.rockwell.com

CMA Frequency List

12 . XPager	37..2
13 . XPager	38..1
14 . X Sod Farm	39..1
15 ..0	40..1
16 ..3	41..0
17 ..2	42..0 No Interference Detected
18 ..1.....4 Channel Club Trainer	43..0
19 ..?	44..X.... Sod Farm
20 . X Sod Farm	45..0
21 ..1	46..3
22 ..0	47..0
23 ..1.....Pager	48..3
24 ..2	49..0
25 ..1	50..3
26 ..2	51..1
27 . XInterference	52..4
28 ..1..... Sod Farm	53..2
29 . X Sod Farm	54..2
30 ..1	55..1
31 ..1.....3 Channel Club Trainer	56..3
32 ..2	57..0
33 . XPager	58..2
34 ..1	59..0
35 ..1	60..1
36 ..3	

- The above information is provided for the exclusive use of CMA members.
- Please do not circulate this list outside of the club.
- Flying on the Sod Farm frequencies is not permitted at the CMA field at any time.
- Club trainer frequencies should be avoided because of the high use of these aircraft.
- The club trainer will be given priority use of the channel during any training operation.
- Frequencies marked as interference or pager have been identified as having RF activity in past spot scanning of frequencies. Operating on these frequencies is very risky.
- Interference and pager warnings are listed only as a guide. RF interference can occur on any channel at any time, the CMA can not guarantee that any channel is free from hazard.
- If you experience problems, or have any information regarding channel interference, please contact the FlightLine editor or the CMA Secretary.

1996 CMA Membership

<u>M/S</u>	<u>NAME</u>	<u>M/S</u>	<u>NAME</u>
108-103.....	Irvin Anderson	108-136	Patrick Neu
108-166.....	Geoffrey Barrance	108-136	David Neu
124-114.....	Ross Beins	137-136	Marion Payne
124-111.....	Bob Buschette	120-105	Elio Picchetti
.....	John Crilley	108-136	Gary Prior
124-115.....	Raleigh Dean	124-123	Wayne Savold
120-131.....	David Decker	139-125	Gerald Showman
153-120.....	Timothy DeWit	108-136	Duane Smith
153-264.....	Tom DeWulf	108-136	Brian Smith
153-163.....	David Dillman	105-152	Basil Tilley
124-300.....	James Doty	124-111	Robert Tribuno
153-264.....	Doug Emerson	124-111	Robert Tribuno (for Peter Tribuno)
153-163.....	David Gillespie	124-111	Robert Tribuno (for Michael Tribuno)
153-163.....	David Gillespie (for James Gillespie)	120-131	Ron Menti (for Tony Veit)
153-163.....	David Gillespie (for Amy Gillespie)	139-142	Charles Ward
120-131.....	Ron Menti	153-264	Bryan Wesner
108-166.....	John Michael	107-110	Victor Wolfe
108-166.....	John Michael (for Kevin Michael)	124-115	Mark Woytassek
153-163.....	Darrin Nebraska		

**Is someone you know missing from this list?
Give them a call and ask them to *Come Fly with us in CMA!***