



Cloud 9

**RC Micro World**

Online Magazine

[www.cloud9rc.com](http://www.cloud9rc.com)

**January 2006**

**WHAT'S NEW and Who's Doing It?**

**1. From John Worth:**

- a. New Models by Nick Leichty. Two latest state of the art tiny RC RTF designs.
- b. Aero Ace RTF Biplane. John Hunton's mods of 'toy' for greater performance.
- c. Lipo Low Voltage by John Worth. Why no special circuitry is needed for cell protection.
- d. Plastic Models as Foam Molds by Steven Deri. Clever way to form complex shapes.
- e. Cox P40 Ready to Fly! By John Worth. Final touches produce great looking model.

**2. Additional Articles:**

- a. One Gram RC Model. Martin Newell tells of his techniques for absolute minimum weight.
- b. N20 Family of Micro Motors. Gordon Johnson sorts out basic differences between them.
- c. Foam Living Room Flyer by John Worth describes challenger to the Plantraco Butterfly.
- d. New Year New Zealand Report by Bryan Spencer describes variations to the Mini-Sport.



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**February 2006**

### **WHAT'S NEW and Who's Doing It?**

#### *1. What's New by John Worth*

- a. Canadian Trio-- three great models by Ken Coleman show how small models can look and fly great.
- b. P40 Follow Up-- finally flying, but underpowered; a motor change is needed for better performance.
- c. DWE KC-100 Charger for single cells of 30 mah up to 1000 mah, portable for field or home use.
- d. A World of Difference—the quiet new age of microflight allows model flying in or close to home.
- e. Gordon Johnson's Bombshell, a great looking slow flying original design for fliers of all ages.
- f. Living Room Flyer Addendum—a followup to last month's report on this micro foam design.

#### *2. Additional Articles:*

- a. Martin's Midge, Part 2, by Martin Newell, shows more about how he built his minus 1 gram model.
- b. Aero Ace Revisited, by Pete Carpenter, tells more about how these amazing 'toys' are being enjoyed.
- c. Rogallos from Brazil, by Augusto Frazzato, clears up confusion from our previous December report.
- d. Micro Model Carry Case, by Ralph Bradley, is the smallest yet, costs little, and is easily available.
- e. National Bldg Museum, by John Worth, is like how indoor model flying might be like in Heaven.



**March 2006**

**WHAT'S NEW AND WHO'S DOING IT**

- a. Airacuda by John Hunton. Adapting the Aero-Ace RC system to a semi-scale all-foam model.
- b. Super-Ace by John Worth. Modification of the Aero-Ace model to provide more wing area.
- c. Aero-Aces in Australia by Prof. John Bird. Still more Aero-Ace RC model modifications!
- d. New Micro Servo by Stefan Gasparin. The latest technology reduces size and weight.
- e. Indoor RC Ornithopter by Del Ogren. A microflapper that flies with simple control system.
- f. A Superior 130 mah Lipo Cell? Details from Richard Adams about a new product from England.

**ADDITIONAL ARTICLES**

- a. Scale conversion by Martin Newell. Measure weights to 1/100 of a gram with a simple addition to an ordinary electronic scale.
- b. Plastic Models as Foam Molds by Steven Deri. Followup to Jan. RCMW details a novel method of shaping Depron sheets.
- c. Stubby Bipe by Bryan Spencer. Wayne Cartwright's model and plan to build a simple RC biplane for indoor flying.
- d. Caproni Bomber by Colin Parker. A Free Flight scale model design with unique appearance and good RC potential.



**April 2006**

**WHAT'S NEW AND WHO'S DOING IT**

**1. by John Worth**

- a. Super Ace Followup, noting how well this model has been performing.
- b. AA- Quad Mod, showing a 4 motored version of the Aero-Ace.
- c. Butterfly Bipes, about adding an extra wing to lower the wing loading.
- d. Ferrell Pavic's 'Birds', an interesting collection of unique designs.
- e. Scott Christensen, showing his many great micro scale models.
- f. Brushless Micro Motors & ESC's, more on these new micro model items.
- g. New Battery Breakthrough? Promising new Lithium technology research.
- h. Simple Plantraco TX Mod, an easy way to a positionable throttle control.

**2. Additional Articles**

- a. Hangar Rat, by Dick Adams, a super-detailed report on a famous model design.
- b. Plastic Model Foam Molds, by Steven Deri, part 2 of last month's article.
- c. Brushless Motor ESC's, by Stew Meyers, a technical report on several products.
- d. Glue Tests by John Hunton, compares various adhesives and their effectiveness.
- e. Micro-Mite, by Ralph Bradley, possibly the smallest micro with a brushless motor.
- f. Micro Cloud Cruiser, by Carl Martin, his micro RC version of an 8 ft free flyer.
- g. Aero Ace P-38, by Bill Smead, a neat adaptation of the A-A rc components.
- h. Micro Bombshell, by Gordon Johnson, another old-timer design for micro rc.



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**May 2006**

## **WHAT'S NEW AND WHO'S DOING IT**

### **1. By John Worth**

- a. NEW MICROBATIC PRODUCTS, receivers and servo, as seen at the 2006 Toledo show.
- b. ANOTHER MICRO-INVENT SOURCE, for easier USA ordering use this California site.
- c. BOB SELMAN DESIGNS PRODUCTS, including the new Falcon servo, as seen in Toledo.
- d. AIR-AGE WEBSITE PLANS, many still available, including free micro model downloads.
- e. UTTAM GOLD-LINE MOTORS, their micro brushless motors, available from BSD Micro RC.
- f. THAYER SYMES' PHOENIX, the plan from Fly RC magazine, a super Butterfly type biplane.
- g. THE AERO-ACE PHENOMENON, continuing to inspire many more original variations.
- h. HANGAR RATS IN ANTARCTICA, photo of an indoor mass flyoff at the South Pole.
- i. ANOTHER GREAT MICRO FLYER, Stew Meyers adaptation of the Free Flight Kolibri.
- j. WORLD'S SMALLEST RC RTF, costs less than \$ 20, another twin motor foam model.

### **2. Additional Articles**

- a. ATOMIC 130 MAH CELLS, the new Gold standard, as tested by Gordon Johnson.
- b. MICRO RC AT TOLEDO, a detailed in-person report with photos by John Worth.
- c. SIMPLE WOOD LAMINATING PROCESS, with helpful hints, by Carl Martin.
- d. GLEN SAYERS' NEW ZEALAND SPITFIRE, sent to RC Micro World by Bryan Spencer.



**June 2006**

**WHAT'S NEW AND WHO'S DOING IT**

**1. WHAT'S NEW AND WHO'S DOING IT, by John Worth**

- a. Three More From John Krouse. RC adaptations to Free Flight designs provide the best of both worlds.
- b. Kolibri Mono or Bipe Conversion. Another variation of converting this RTF FF for RC flying.
- c. Twin Motor NZ Hangar Rats. The use of 2 motors provides increased performance to a simple design.
- d. SH&R "Angel", a Work in Progress. A neat slow flying all-Depron two channel RC from Canada.

**2. ADDITIONAL ARTICLES**

- a. A Tale of Two Moths, by Dick Adams. Electric & Rubber powered versions of his RC scale model.
- b. Wayne Cartwright's Aerobatic Ripple, by Bryan Spencer. A simple all-foam 3 channel NZ design.
- c. The Profile Piper Cub, by Bryan Spencer. Another simple 3 channel design from New Zealand.
- d. Hangar Rats in New Zealand, by Bryan Spencer. Further proof that the Rats are everywhere!
- e. New Zealand RC Bit Cars, by Bryan Spencer. How these low cost RC systems are used to fly models.



**July 2006**

**WHAT'S NEW AND WHO'S DOING IT**

- a. KOLIBRI FOLLOWUP. Details of a conversion of last month's Bipe to a single wing flyer.
- b. UNMANNEDAERIAL VEHICLES. Where to find information about these military planes.
- c. THE INDOOR RC GUIDE. A status report on this information source for micro RC newcomers.
- d. THE MICRO HANGAR RAT. Australia's Reg Register and his shrunken Rat (a Minnie Mouse?).
- e. NICK LEICHTY'S NEW RECEIVER. A sub-micro 3 channel version weighing less than 1/10 gram!
- f. CAPACITOR BATTERIES. A new technology, to reduce charge time and extend life indefinitely.
- g. PONG MODEL PREVIEW. A peek at an article to come from RCMW Editor-At-Large Bob Aberle.

**ADDITIONAL ARTICLES**

- a. MIGHTY MIDGET "GOLD LINE" 13 MM BRUSHLESS MOTORS, by Gordon Johnson.
- b. SKY HOOKS ANGEL FOLLOWUP. Flight results and modifications to the basic design, by John Worth.
- c. A MICRO DEMOISELLE. An 18" version of his much larger scale model, by Ken Spencer.
- d. COORDINATED RUDDER/ELEVATOR LINKAGE, by Professor John Bird of Australia.



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**August 2006**

### **1. WHAT'S NEW AND WHO'S DOING IT, by John Worth**

- a. NEW LIGHTNING SERVO, upgraded model of the Microbotics micro servo.
- b. JERRY NELSON PRODUCTS, another source of unique micro and other items.
- c. YELLOW-BEE—BEYOND THE AERO-ACE, larger twin pusher plastic plane.
- d. MAN-CARRYING ELECTRIC POWERED "MODEL", flies with AA dry cells!
- e. FREE-FLIGHT TO RC CROSS-OVER, another neat John Krouse indoor design.
- f. AUTOMATIC CRASH PREVENTION, using technology to avoid flying into walls.
- g. NEW PLANTRACO AIRPLANE KITS, plus the Carbon Butterfly to come shortly.

### **2. ADDITIONAL ARTICLES**

- a. WALKER JR, by David Robelen. Details and plans for his small Living Room Flier.
- b. PROPS AND ADAPTERS, by Bob Aberle. What's available for micro BL motors.
- c. CHRIS WINCHCOMBE'S MICRO ACROBAT, by Bryan Spencer. Small, simple.
- d. SKY HOOKS ANGEL & LITTLE DEVIL, by John Worth. Twin-boom pushers.



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**September 2006**

**1. WHAT'S NEW AND WHO'S DOING IT, by John Worth**

- a. NEAT FAIR SEMINARS & INDOOR FLYING. Preview of what's to be expected.
- b. FREE FLIGHT DESIGNS FOR RC. Bill Hannan's Profiles for Conversion to RC.
- c. LOCKHEED'S SEED-SIZE PLANE. New Spy Plane is a 1.5" 10 gram Microflyer.
- d. M1 SUPER BATTERY. Nano Battery for Power Tools Promises Much for Future RC.
- e. PLANTRACO'S CARBON BUTTERFLY. A sleeker, stronger version for microflight.
- f. FUSES FOR FF (AND MAYBE RC? Simple Way to Add Cylindrical Fuses to System.
- g. INTERESTING WEBSITE AND VIDEOS. European Products in U.S. and Slow Flyer.
- h. FULL SIZE PLANS. A New Subscription Service is Planned for January Initiation

**2. ADDITIONAL ARTICLES**

- a. BRUSHLESS MOTOR PLAYBOY, by Bob Aberle. Remodernizing an Electric Favorite.
- b. WAYNE CARTWRIGHT'S NZ FLIRT, by Bryan Spencer. Small Simple RC, Ailerons.
- c. MORE POWERFUL MOTORS FROM DU, by Stew Meyers. Beyond the Mighty Midgets.
- d. AUTONOMOUS STEERING MICROFLYERS, by John Worth. New Swiss Developments.
- e. MICRO RC HELICOPTER, by Joe Malinchak. Precision Heli's New Micron V2.
- f. COPYING TO A CD. Guide for putting RC Micro World monthly issues on a CD.



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**October 2006**

### **1. WHAT'S NEW & WHO'S DOING IT, by John Worth**

- a. NEW FULL SIZE PLANS SERVICE, with free sample of the Mini-Quaker.
- b. CHANGES AT INDOOR FLYER IN UK, from Graham Stabler to Michael Henriksen
- c. A MICRO B-52—RELATIVELY! It depends on what you compare it to.
- d. DYNAMICS UNLIMITED IS GONE! A major contributor to our world is out of business.
- e. HALF-OUNCER BY JOHN KROUSE. Another example of his excellent designs.
- f. RCMW MODELS AT NEAT FAIR. Much of what you have seen here was flown there.

### **2. ADDITIONAL ARTICLES:**

- a. NEAT FAIR IN-DEPTH REPORT, by Bob Aberle, with extensive text and photo coverage.
- b. THE MINI-QUAKER, Dave Robelen's plans, text, and photos of a mini- old-timer design.
- c. THE GOLLYWOK, John Worth's RC Conversion of a famous old free-flight model.
- d. LUTON MINOR SCALE DESIGN FROM NEW ZEALAND, article by Bryan Spencer.
- e. AN RTF 'HANG GLIDER', Merle Davies tells of his toy-type Rogallo Wing experience.



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**November 2006**

**A. What's New and Who's Doing It, by John Worth**

1. Micro B-17, by Joe Beshar. Uses helicopter components to drive 4 Aero-Ace motors.
2. Using MicroBlimp RC for Model Plane?, by John Worth. A challenge to ingenuity.
3. Mystery Plane Identified. NEAT Fair 2006 all-balsa design is kit by Stevens Aero.
4. Matt Keennon's Eindecker. A micro-micro jewel by one of our top microfliers.
5. Nick Leichy's Latest. A sub-micro 3 channel original that weighs less than gram!
6. InfraRed for Micro Flight. New perspective on the lightest of control systems.

**B. Additional Articles**

1. The POLY-T, by Bob Aberle. New design for the Mighty Midget brushless motor.
2. Infra-Red Status Report, by Sergio Zigras. The IR master updates the subject.
3. The Bradley Brothers Models. Ralph and Paul tell us what they have been doing.
4. How to Convert Planes from 2 to 4 motors with Helicopter RC, by Matt Keennon.



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**December 2006**

**1. WHAT'S NEW AND WHO'S DOING IT, by John Worth**

- a. NEW MICRO-INVENT SERVOS. A report on new lightweight 'coil servos' from Slovakia.
- b. MY CARBON BUTTERFLY. Additional comments to the report by Dave Robelen.
- c. GOOD SOURCE OF INDOOR SUPPLIES. For those who want the best products.
- d. FULL SIZE PLANS SERVICE. Online subscription publication ready for takeoff.
- e. BILL WINTER 'BUZZER' FOR RC? Suggestion for design suitable for microflight.
- f. BETTER WAY TO CONTROL HELICOPTERS? New toy heli may be easier to fly.
- g. KEYSTONE INDOOR ELECTRIC RC FUN FLY. March '07 PA sports dome event.

**2. ADDITIONAL ARTICLES:**

- a. JR INDOOR RC FESTIVAL, by Bob Aberle. Extensive report on October '06 event.
- b. CARBON BUTTERFLY REPORT, BY Dave Robelen. A Field & Bench evaluation.
- c. NZ BUZZARD BOMBSHELL, by Bryan Spencer. 'Down Under' design variation.
- d. VINTAGE MODELS FOR MICROFLIGHT, by Steve Polles. Old-Timer RC designs.