

# FAI World Championship For Model



Muncie, Indiana • USA

# Official Program

## SCHEDULE OF EVENTS

### Countries Entered:

Argentina, Austria, Canada, China, Cyprus, France, Germany, Israel, Italy, Japan, Norway, Philippines, Russia, Singapore, South Africa, South Korea, Sweden, Switzerland, Ukraine, United Kingdom, and United States of America (USA)

Note: All flying events are open to the public.  
Additional events may only be open to contestants, officials, and supporters.

### Schedule:

#### Sunday, August 2, 2009

Arrival & Registration 0730 - 1800

#### Monday, August 3, 2009

Model Processing 0730 - 1800

Judge & Jury meeting 1500

Opening Ceremonies 1800

#### Tuesday, August 4, 2009

Official practice 0900 - 1700

#### Wednesday, August 5, 2009

Demo Flights 0800

Round 1 of Schedule A 0900

#### Thursday, August 6, 2009

Round 2 of Schedule A 0900

#### Friday, August 7, 2009

Round 3 of Schedule A 0900

#### Saturday, August 8, 2009

Round 4 of Schedule A 0900

Team Awards will be presented at the conclusion of round 4

#### Sunday, August 9, 2009

Rain / Off / Tour Day

#### Monday, August 10, 2009

Demo 0800

Finals of Rounds 1 and 2 0900

#### Tuesday, August 11, 2009

Finals of Round 3 0900

Individual Awards will be presented at the conclusion of round 3

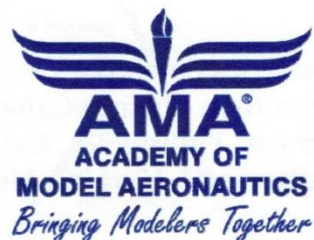
Closing Ceremonies & Banquet 1800 - 2300

#### Wednesday, August 12 - August 16, 2009

IRCHA Jamboree

## Academy of Model Aeronautics

5161 East Memorial Drive  
Muncie, Indiana 47302  
(765) 287-1256 – Business  
(765) 289-4248 – Fax  
(800) 435-9262 – Membership Services  
<http://www.modelaircraft.org>



On behalf of the Academy of Model Aeronautics' nearly 150,000 members, it is my sincere pleasure to welcome you to the United States and AMA's International Aeromodeling Center. The AMA is honored to host the 13<sup>th</sup> F3C RC Helicopter World Championship.

Pilots and Teams representing 21 countries will compete to decide the 2009 F3C Individual and Team World Champion. At the same time, in the traditional spirit of FAI competition, old friendships will be renewed and new friendships will be made. Memories will be made that will last a lifetime.

Our team of organizers has worked hard to ensure that your World Championship experience is a positive one. A great deal of preparation has gone into assuring that you will have an exciting and rewarding competition.

Should there be anything that we can do to make your visit better, please contact any member of the AMA staff, who are ready to assist in any way they can.

Best of luck,

A handwritten signature in black ink, appearing to read 'Dave Mathewson', with a long horizontal flourish extending to the right.

Dave Mathewson  
President, Academy of Model Aeronautics

# Academy of Model Aeronautics

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Welcome!

The mere aspect of a "World Championship" brings to mind the excitement of spirited competition. The aspect of the fastest growing segment of model aviation in the form of Radio Controlled helicopter aircraft brings even more excitement to an event.

Combine the aspect of F3C and the "World Helicopter Championship" with the best pilots from around the globe and you will have all of the ingredients for one of the greatest competition events in 2009.

Welcome to the International Aeromodeling Center and the headquarters of the Academy of Model Aeronautics! We are truly honored to have you here in Muncie Indiana for this event. If this is your first time to visit our AMA home - welcome! If you're a returning friend - welcome back!

The strength of any competition is the people behind the flight lines making sure every aspect of a successful event happens. I offer a special thank you to those who give of their time and energies to make this world class event possible.

Please avail yourself to every opportunity the site has to offer. If you should have any questions about the flying site or the Academy please contact me or any AMA staff person. A visit to the National Model Aviation Museum is a "must do" while on site.

In the spirit of flight

Jim Cherry  
Executive Director



RICHARD G. LUGAR  
UNITED STATES SENATOR  
WASHINGTON, D.C. 20510

August 3, 2009

Dear Modelers:

It is my pleasure to welcome you to the World Helicopter Championship in Muncie, Indiana.

I applaud your interest in this sport and am sure the day will be exciting as you enjoy the various model helicopters and competition. The Academy of Model Aeronautics is most unique in its desire to create aircraft and compete internationally and throughout the United States.

The ability, knowledge and commitment to the sport are admired by those who attend the Championship exhibitions and shows.

My best wishes to the modelers and visitors of this World Helicopter Championship for a day of camaraderie and immense competition.

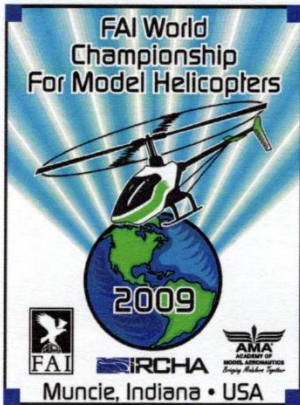
Sincerely,

Richard G. Lugar  
United States Senator

RGL/dkd



Not Paid For in Government Expense.  
Printed on 100% Recycled Paper.



# **FAI World Championship for Model Helicopters Muncie, Indiana, USA**

Dear friends,

On behalf of the FAI, it is my pleasure to welcome you to the 13<sup>th</sup> F3C Radio Control Model Helicopter World Championships in Muncie, Indiana. The event represents the highest level of international competition with 56 registered competitors from 21 nations participating.

Radio-control model helicopter flying is a discipline that has growing appeal to public and television audiences. Even a layman can appreciate the great skill of the pilots and the precision they achieve in maneuvering their machines. At this level of competition each pilot must invest a tremendous amount of practice time, by flying literally every day of the week, to be competitive.

I am hopeful that the R/C Helicopter sport will become one of the central elements in FAI's pursuit of wider media coverage of air sports. In FAI events, the spirit of brotherhood and sportsmanship predominates and we symbolize it by displaying the FAI flag. The individual national flags indicate the branches of the FAI family of nations that participate in the World Championship.

As you compete for FAI/CIAM Medals and other awards, please keep in mind the principle aim of the FAI: to bring people of different nations together in mutual understanding and friendship. If you are competing for the first time at this level, I expect you to learn more during this week's activity than you would in many months back home.

The staff of the Academy of Model Aeronautics (with support from the Special Interest Group – IRCHA) has worked long and hard to prepare this Championship and my thanks go to all of them for their tremendous efforts. I wish the organizers of the 13<sup>th</sup> F3C World Championship much success and for all pilots to have good flights. And finally, I wish that all participants make new friends and take home many happy memories.

With best regards,

Horace Hagen  
Chairman FAI/CIAM F3C S/C

# Synopsis of FAI Class F3C Operation

*By Horace Hagen, Chairman of the CIAM F3C Sub-committee (2006 Update)*

For the FAI/CIAM F3C competition, class pilots must perform complex hovering and aerobatic maneuvers with a radio-controlled model helicopter. Each maneuver must be executed with high precision and skill in any attitude and under all weather conditions. F3C model helicopters have a weight limit of 6kg, a maximum rotor disk area of 250dm<sup>2</sup> and are powered by internal-combustion engines with a maximum displacement of 15ccm or electric motors with a maximum battery voltage of 42. The engines/motors must be adequately silenced to meet a specified noise limit. The on-board radio-control equipment, receiving signals from the competitor's transmitter, actuates the engine throttle, main rotor lateral and longitudinal cyclic pitch, main rotor collective pitch and tail rotor pitch to guide the model helicopter through hovering and aerobatic maneuvers.

Maneuvers schedule A is used for the preliminary rounds, and more difficult schedules B and C are used during the flyoff rounds. Each schedule contains three hovering maneuvers that are performed directly in front of the judges over a designated helipad layout. Aerobatic maneuvers are performed in a window that extends 60 degrees to the left and right of a center line, and at an elevation of no more than 60 degrees. A prescribed aerobatic maneuver must be performed each time the model helicopter crosses the center line. Aerobatic maneuvers consist of a combination of loops, rolls, pirouettes, lines and stall turns. Aerobatic maneuvers or parts thereof performed outside of the window are penalized by loss of points, proportional to the degree of infraction. The hovering maneuvers are flown at a distance of 15 meters from the judges. The aerobatic maneuvers are typically flown at 100 meters in front of and parallel to the judges' line.

Each competitor's performance is assessed by a panel of judges who award marks between zero and 10 (0.5 point increments) for each maneuver. Judging is based on four basic criteria: Precision, Smoothness and Gracefulness, Positioning and Display/Size of maneuvers. Points are subtracted for various types of defects observed by the judges, the severity of these defects, and the number of times the defects are observed.

Each competitor participates in four preliminary rounds, of which the best three flight scores determine his/her placing. The F3C class is a team as well as an individual competition. FAI member countries may enter a team with a maximum of three competitors as a national team for World and Continental Championships. Team results are based on the sum of each country's team members' preliminary round scores and determine the F3C World Champion Team. The top 15 pilots of all competitors then participate in three flyoff rounds to determine the F3C World Champion.

## Organizations Involved



### Fédération Aéronautique Internationale

The FAI is the worldwide governing body for all sporting aviation including soaring, parachuting, ballooning, racing, aerobatics and aeromodeling. With headquarters in Lausanne, Switzerland, the FAI is the official source of documentation for all international competition; it supervises the organization of World Championships and the establishment of World Records (including general aviation and space) in accordance with FAI regulations. The FAI has been in existence for over 100 years, with approximately 50 countries currently participating.

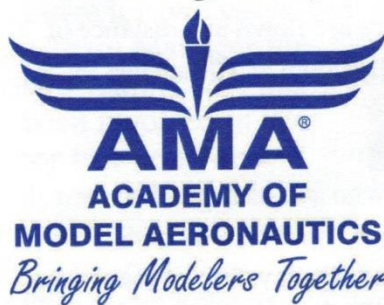
### National Aeronautic Association

The National Aeronautic Association is one of the oldest national aviation organizations in the world. Dedicated to the “advancement of the art, sport and science of aviation in the United States,” it serves as the official aviation record-keeper in America, and owns and administers some of the most important and prestigious aviation and aerospace awards in the world - including the Robert J. Collier Trophy.



### Academy of Model Aeronautics

The AMA is an affiliate of NAA, responsible for governing all aspects of aeromodeling activity in the United States. Headquartered in Muncie, Indiana, the AMA is a 150,000 member organization supported by dues-paying aeromodelers of all ages - currently with about twice as many adults as youngsters. Over 150 members serve as volunteer officers, governing competition rules and their administration, aided by a network of 2,400 chartered clubs. One of AMA's principal activities involves the sanctioning of thousands of local, regional, and national aeromodeling meets each year.



### International Radio Controlled Helicopter Association

IRCHA was established as an organization by the pilots, for the pilots. IRCHA works to promote the continued growth of radio-controlled helicopters through education, representation, service, and special events. Radio-controlled helicopters are a dynamic, evolving segment of the AMA and, as such, IRCHA works closely with the AMA to foster growth and acceptance. Through these endeavors, IRCHA hopes to provide its members with the opportunity to enjoy the hobby, make many new friends, and expand their intellectual interests.



# F3C World Championship Officials

## FAI Jury

**Horace Hagen, USA, FAI Jury President,**



started flying models at age 9 and joined AMA in 1957. He flew Control Line, Free Flight, single channel, 8 channel reed, analog proportional and digital proportional RC airplanes from 1954 to 1973. Horace was the first to fly a Schlueter "Cobra" RC

helicopter in the USA in 1971. He was a member of the AMA RC Helicopter Advisory Committee 1974-1982 Chairman from 1977-1982, member of AMA RC Helicopter Contest Board 1982-present Chairman 1982-2002, member of USA F3C Team Selection Committee 1985-present Chairman 1985-2004, member of the FAI/CIAM F3C Subcommittee since 1979 Chairman since 1990. He has organized and directed 12 regional, two national, two F3C team selection and one World Championship competition. He has officiated at every European/Asia-Oceanic Continental and World Championship since 1984. Horace received the AMA "Superstars of Radio Control" award in 1990, AMA/IRCHA "Walt Schoonard Memorial" award in 1996, and became an AMA Fellow member in 2002. Since retiring from AT&T Bell Labs in 2001 Horace has been exclusively flying electric powered RC helicopters and airplanes.

**Dag Eckhoff, Norway, 58,** is a civil architect.

He has 39 years of experience modeling, with 33 of those years in helicopters. Dag has been a member of the F3C Subcommittee since 1994. He has been a Judge in four World Championships, six European Championships, one Asian Championships, and the World Air Games 2009 in Torino, and a member of the jury in one World



Championships. He is the leader of the model helicopter group in the National Aero Club of Norway.

**Jo Halman, United Kingdom,** is the Technical Secretary of FAI CIAM. She has been involved in FAI competition in various categories for 38 years; initially as a competitor in F2A (Control Line Speed) on the domestic circuit and then as contest director or judge or FAI Jury at World and European Championship level. She was for many years as the United Kingdom team manager for F3 and twice for Space Modeling. She is an Executive Officer of the British Model Flying Association with specific responsibility for competitions and international teams. Although Jo's first love is F2A, her second love is F3C.



## FAI Judges

**Phil Noel, Canada**



**Manfred Dittmayer, Austria,** has been modeling for more than 40 years. His first helicopter was a 1975 Bell 47G (Graupner). He has been an FAI judge and CIAM subcommittee members since 1988. Since 1993 he has been in the World Championship and European Championships as Judge or Contest Director.





**Lucio Della Toffola**, Italy, is an F3C National Judge since 1984 and International Judge since 1985. He was a judge at the F3C European Championship in 1986, 1992, 1994, 1998, 2002 and 2004, also a Judge at the F3C World Championship in 1987, 1993, 1995, and 2003 and at the 2006 F3C CAOCC. He is a FAI/CIAM subcommittee member for F3C.



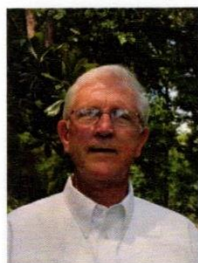
**Shigetada Taya**, Japan, is the president of Taya Engineering Co., Ltd. His company is a developer of radio control helicopters such as Consept, Raptor, and Innovator. He was F3C World Champion in 1985.



**Carl Otto Strandh**, Sweden, 64, is a retired Chief Financial Officer. He has 20 years experience with model helicopters. Carl Otto is a FAI/CIAM F3C subcommittee member.



**Dave Sellars**, United States of America, has a master's degree from Florida State University. He is retired from Florida State Government after 32 years of service. Dave developed a love for models and all things flyable around the age of 10 and have been involved in some aspect of model aviation for almost 50 years. He started flying radio control about 25 years ago and has been involved with helicopter competition for almost 15 years as both a contestant and a judge. Dave has served as FAI judge at the US Nationals for the past seven years.



**Giovanni Lo Furno**, Belgium



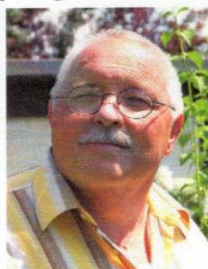
**Stefan Wolf**, Germany, 36, is a surveying engineer. He has been involved with RC for 23 years and has been involved with RC helicopters for 20 years. He has been a judge for F3C and F3N since 1995. He has judged the F3C European Championships in 2004, 2006 and 2008, the F3C World Championship in 2005 and 2007, and F3C Asia Oceanic Continental Championships in 2008.



**Frits van Laar**, Netherlands, 61, is a retired police chief inspector. He has been an International F3C Judge since 1994, is a member of the FAI/CIAM Technical Committee for F3C and F3N, and has been the President of the RC helicopter section of the aeromodelling department of the Royal Netherlands Aeronautical Association for more than 15 years.

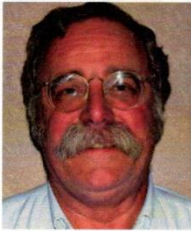


**Juerg Schmitter**, Switzerland, is married and has three children. He was president of the Model Flying Association of Switzerland from 1990-1998, Judge of F3A from 1963-1974, Judge of F3C since 1975. Juerg is a member of the F3C CIAM subcommittee and of the technical commission F3A/F3C in Switzerland. He has been a judge in many European and World Championships since 1995.



## Event Management

Event Director **Craig Bradley** lives in DeWitt,

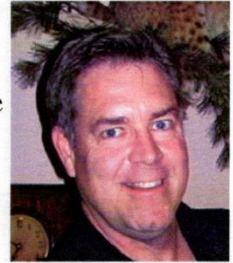


Michigan. He has been married for 33 years to wife Karen. They have two sons, Sean and Joel. Craig has been flying RC helicopters since 1988. He was an F3C Judge from 1991-1996, Nats RC Helicopter Event Director

from 1997-2009, FAI Team Selection Finals CD from 1999-2009, Event Director of the 2001 F3C World Championship, AMA RC Helicopter Contest Board Chairman, and FAI F3C Team Selection Committee Chairman. Craig has been an IRCHA member since 1990, Member-at-Large from 1995-2005 and currently holds the position of AMA Contest Liaison.

Assistant Contest Director **Chuck Birt**

currently resides in South Carolina. He has been married for 19 years, has three daughters and has one grandson. Chuck has been flying RC helicopters since 1986. He flies exclusively electric helicopters, both pod/boom and Scale



versions. He is a long-term member of AMA and IRCHA.

## Workers

**Flight Line Coordinators:** Tom Johnson and Tom Erb

**Official/Demo Pilots:** Daniel Hiatt, Gordie Meade, Tim DiPeri, and Nick Maxwell

**Officials:** Matt Kolarik, Joe Coppola, Ben Minor, Steve Herring, Jon Zankl, and Dr. Tim Dawson.

**Scoring:** Dan Monroe

## AMA Competition Department Staff

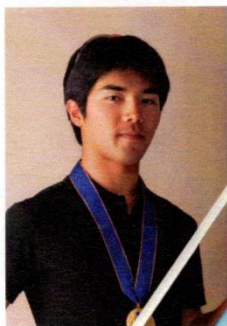
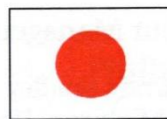
Greg Hahn, Technical Director

Colleen Pierce, FAI Coordinator

Michelle Lamb, Sanctioning Secretary



# Reigning FAI F3C Helicopter World Champion Hiroki Ito, Japan



Pilot Hiroki Ito, 19, is a two-time World Champion. In 2005 2007, and 2008 he won the National Champion title in Japan. He is also the 2006 Taiwan Cup (3D) Champion and 2006 3D Masters runner-up. Hiroki is a college student. He will be flying a JR Sylphide.



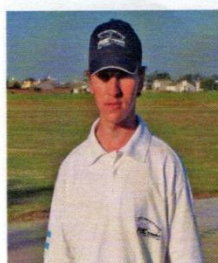
## Argentina

**Team Manager Victor Mario**

**D'Arcangelo, 39**, is a multimedia producer/engineer. He has enjoyed aeromodeling for 24 years and has been involved with F3C for four years. Victor Mario has been an F3C Judge and F3C Event Director.

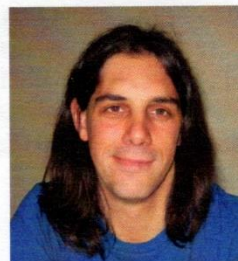


**Pilot Diego Vincini, 30**, is the Argentine F3C Champion. Diego is a Car Mechanics Specialist. He has been in aeromodeling for 20 years and has been involved with F3C for seven years. Diego will be flying a Hirobo Freya EX2.



**Pilot, Alan Kaufer, 18**, has been involved with F3C for six years and been aeromodeling for 10 years. Alan is a student. He will be flying a Hirobo Freya EX2.

**Pilot Carlos Javier Tabia Jr., 32**, has been aeromodeling for 20 years and been involved with F3C for two years. He is a Corporate Manager. Carlos will be flying a Hirobo Freya EX2.



**Helper/Mechanic: Carlos Tabia Sr. and Carlos Gardella**



## Austria

**Team Manager Yohann Egger, 54.**



**Pilot Bernhard Egger, 30**, is a six-time National Champion. He has been a WC team member for eight years and EM Team member for one year. He has been involved in

aeromodeling for 18 years and in F3C for 11 years. He is a car mechanic. Bernhard will be flying a Kyosho Caliber 90.

**Pilot Andreas Kals, 28,** is an owner of a flying school. Andreas has been involved with F3C for eight years and has been in aeromodeling for 19 years. He is a WC team member and an EM Team Member. He will be flying a JR Sylphide E10.



**Pilot Wolfgang Worgas, 42,** is a Chef. His best finishes are sixth place in EC in England and 12th place at the 2001 World Championships in Muncie IN. Wolfgang has been involved with F3C for 16 years and involved with aeromodeling for 17 years. He will be flying a Kyosho Caliber 90.

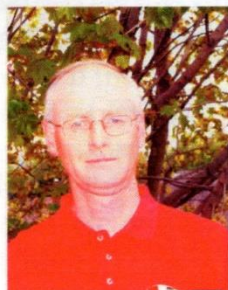


**Helper/Mechanic:** Yosef Kals, Gerhard Kals, and Thomas Hofmann



Canada

**Team Manager Steve Gray, 55,** has been involved with aeromodeling for 45 years and involved with F3C for 18 years. He is a Hobby Shop Owner. Steve is a two-



time Canadian Champion, competitor at six F3C World Championships, team manager for four World Championships, competitor at two F4C World Championships, and Judge at two F4C World Championships.

**Pilot Scott Gray, 29,** is a mechanical designer. Scott has been in aeromodeling for 24 years and has been involved with F3C for 13 years. He finished in second place in the 2005 and 2007 World Championship, first in F3C for 13 years in Canada, first in the 2003 and 2007 USA F3C Nationals, first in 2006 XFC 3D, second in HTC 3D Taiwan, and fourth in the 2002 and 2003 3D Masters. Scott will be flying a JR Vibe 90 SG.



**Pilot Bill Tinsley, 43,** has been a Canadian FAI F3C team member since 2004. He has been involved with aeromodeling for 33 years and involved with F3C for five years. Bill is an Avionics Technician for Air Canada. He finished 19<sup>th</sup> in the 2004 F3C USA Nationals, 13<sup>th</sup> in the 2005 F3C USA Nationals, 43<sup>rd</sup> in the 2005 FAI F3C Spain World Championship, 14<sup>th</sup> in the 2006 F3C USA Nationals, eighth in the 2007 F3C USA Nationals, 61<sup>st</sup> in the 2007 FAI F3C Poland World Championship, and ninth in the 2008 F3C USA Nationals. Bill will be flying a JR Vibe 90 SG.

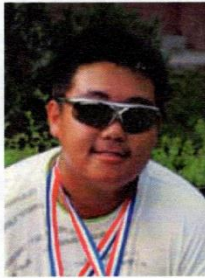




## China

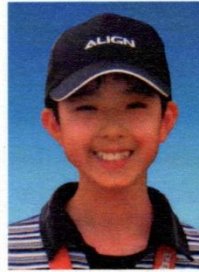
**Team Manager Yulong Jiang, 46,** is an officer of the Aero Sports Federation of China. He has been involved in aeromodeling for 24 years.

**Pilot Songhua Zhang, 26,** has been involved with aeromodeling for 19 years and with F3C for six years. He finished first in the 2008 China National F3C Championship, eighth in the 2008 Asia F3C Championship in the Philippines, 43<sup>rd</sup> in the 2007 World F3C Championship in Poland, first in the 2007 China National F3C Championship, and first in the 2006 China National F3C Championship. He will be flying a Hirobo Eagle III.



**Pilot Shuai Feng, 15,** is a Middle School student. Shuai has been involved with aeromodeling for three years and F3C for two years. He finished 15<sup>th</sup> in the 2008 Asia F3C Championship in the Philippines, second in the 2008 Hirobo F3C Cup in China, third in the 2008 China National F3C Championship, first in the 2008 China National P3C-3 Championship, and second in the 2007 China National K3R Championship. He will be flying a Hirobo Eagle III.

**Pilot, Brandon Xue, 13,** is our youngest competitor at this year's Championship. Brandon is a seventh-grade school student. He has placed second in the 2008 China National F3C Championship, second in the 2008



China National P3C-3 Championship, first in the 2007 Hirobo P3C Cups China Region, first in the 2009 GaoAn Cup 3D Grand Prize held in Henan, China, and second in the 2009 Align-GaoAn Shanghai 3D Competition held in Shanghai, China. Brandon will be flying a Kyosho Caliber 90 V.06.

**Helper/Mechanic:** Tian Lai Yan, Chen Gu, and Yang Peiliang.



## Cyprus

**Team Manager Emilios Kassianides, 62,**



has been the team manager for the last 15 years. He has been involved with aeromodeling for 46 years and F3C for 15 years. He has been an International Judge for light aircraft navigation and is an experimental aircraft builder.

**Pilot Alexis Kestas, 34,** has been involved with aeromodeling for 18 years and F3C for 10 years. Alexis is an Accountant. He has participated in International events since 2002 and has been the Cyprus F3C Champion since 2004. He will be flying a JR Sylphide.



**Helper/Mechanic:** Andreas Stephanou



France

**Team Manager Frederic Theurel, 45,** is a technical support engineer for Air France. He has been involved with F3C for 15 years and aeromodeling for 35 years. Frederic is a second-time French Team Manager, 15-year competitor, supporter of the French team for 11 years, and part of the French Federation of the RC Heli Committee.



**Pilot Laurent Lombard, 44,** is a music composer. Laurent is the current French Champion. He was part of the European Team Championship in 2006, and finished second in 2008. He has been involved with aeromodeling for 29 years and F3C for 12 years. He will be flying a Kyosho Caliber 90.



**Pilot Arnaud Poyet, 33,** has been aeromodeling for 20 years and flying F3C for five years. He is a Company Manager. Arnaud is an F3C 2008/2009 French team member, finished fourth at the 2008 European Championship, second with the French team, and second at the 2007 and 2008 Championship. He was an F3A French team member from 2002 to 2007 and a TOC pilot in 2002. He will be flying a Kyosho Caliber EP.



**Pilot Pascal Brianchon, 40,** has been a member of the French team since 1997. He has finished second many times at the French Championship, was Team European Champion in 2006, and was second in 2008. He has been involved with aeromodeling for 25 years and flying F3C for 21 years. He enjoys windsurfing and soaring. He will be flying a Hirobo Freya Evo.

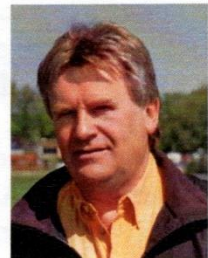


**Helper/Mechanic:** Jean-Louis Poyet



Germany

**Team Manager Ronald Kiesewetter, 52,** has been involved with aeromodeling and F3C for 10 years. He is a service engineer.



**Pilot René Petersen, 33,** is an Airline Pilot. He has been involved with aeromodeling for 16 years and F3C for four years. René is a German National Competitor, finishing third in 2007 and fifth in 2008. He will be flying a Hirobo Eagle 3 AOC.



**Pilot Uew Kiesewetter, 24,** is a student studying aerospace technology. He finished second in the German Championship in 2008 and first in 2009. He will be flying an S Floechinger Acrobat Shark.



**Pilot Stefan Wachsmuth, 24,** has been involved with aeromodeling for six years and F3C for four years. He is a JT System electrician. He placed third in the German Championship in 2008. He will be flying a Kyosho Caliber 90.

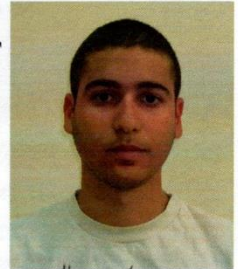


**Helper/Mechanic:** Achim Krueger and Guenter Wachsmuth



## Israel

**Pilot Chen Zarfati, 20,** has been aeromodeling for eight years and flying F3C for six years. He is a soldier. Chen has taken part in the World and European Championships since 2005. He finished ninth in the European Championships in 2006 and has been the Israeli Champion for 2006, 2007, and 2008. Chen has flown in Spain, Thailand, Germany, and more places as a Demonstration Pilot. He finished first in the 2006 3DM Masters class and fourth in the 2008 3DM Masters class. Chen will be flying a JR Sylphide.



**Pilot Aviv Levi, 21,** is a soldier in the IDF. He has been involved with aeromodeling for 11 years and F3C for 10 years. He finished second for Juniors in the 2000 European Championship, first in the 2004 Israeli Championship, and first in previous National Championships. He will be flying a Hirobo Eagle 3.



**Helper/Mechanic:** Ilan Zarfati and Menashe Levi



## Italy

**Team Manager Claudio Dorigoni, 52,** is a cameraman. He has been involved in aeromodeling for 24 years and F3C for 10 years.



**Pilot Stefano Lucchi, 52,** is a Consultant. He has been involved with aeromodeling for 35 years and flying F3C for 25 years. He will be flying a Hirobo Eagle.

**Pilot Alessandrom Del-Lungo, 50,** is a Technician. He has been involved with aeromodeling for 35 years and F3C for 15 years. He will be flying a JR Sylphide.



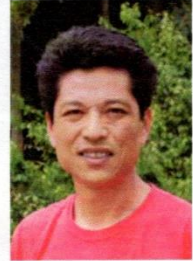
**Pilot Fabio Livi, 39,** has been involved with aeromodeling for 25 years and F3C for 20 years. He will be flying a Hirobo Eagle.

**Helper/Mechanic: Manuel Dorigoni and Mavrizio Amorth**



## Japan

**Team Manager and Pilot Kazuyuki Sensui, 39,** is the 1991 F3C World Champion and 1990, 1992, 1994, 1995, 1997, 1999, and 2000 F3C National Champion. He has been involved in aeromodeling for 26 years with 25 years in F3C. Kazuyuki will be flying a Kyosho Caliber 90.



**Pilot Manabu Hashimoto, 37,** is in Hirobo Limited Model Enterprise R&D. He has been aeromodeling for 25 years and involved in F3C for 24 years. He is a 1997, 1999 and 2003 F3C World Champion, a 2006 and 2008 F3C AOCC Champion, and the 1996, 2003, and 2004 F3C National Champion. Manabu will be flying a Hirobo Eagle 3 WC.



**Pilot Yukihiro Dobashi, 40,** works for Futaba. He is a 1989 F3C World Champion and a 1991, 1993, and 1998 F3C National Champion. Yukihiro will be flying a Kyosho Caliber 90.



**Helper/Mechanic: Maeba Yoshikazu, Kazuomi Tsukahara, and Yuji Kamiya**





## Norway

**Team Manager Jan Thore Lysren, 43,** has been in aeromodeling for 35 years and involved with F3C for seven years.



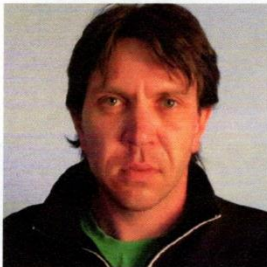
**Pilot Lars Aage Olsen, 38,** is an Assistant Headmaster at a primary school. He finished third in the 2008 National Championship and 33<sup>rd</sup> in the 2008 European Championship. Lars will be flying a JR Sylphide Super Gracy.



**Pilot Einar Bergseth, 38,** is an Engineer. He has been aeromodeling for 14 years and involved with F3C for 10 years. He will be flying a JR Sylphide 90.



**Pilot Jon Roger Thomassen, 35,** is an Electrician. He has been aeromodeling for nine years and involved with F3C for seven years. He will be flying a JR Vibe 90 SG.



## Philippines

**Team Manager and Pilot Justin Neri, 37,** is the 2006 F3C National Aeromodeling Tournament Champion, finished third in the 2007 F3C Hirobo Cup in Asia, and was a 2008 AOCC F3C qualifier. He has been aeromodeling for five years and involved with F3C for four years. Justin will be flying a Hirobo Eagle 3.



**Pilot Antonio Andre Lua, 45,** is a Seaweeds Furniture manufacturer and exporter. He competed in the Hirobo Cup 2007 in Asia. Antonio will be flying a Hirobo Eagle 3.

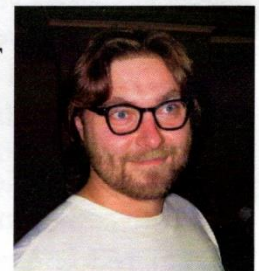


**Helper/Mechanic: Shakespeare Chan, Miguel Ramos, and Ludwig Llanora**



## Russia

**Pilot Alexander Emelyanenko, 40,** is a Consultant. He has been aeromodeling for 29 years and involved with F3C for five years. Alexander is a multi-time F3C National Champion and multi-time F2A



National Champion. He will be flying a Hirobo Freya Evo OP.

**Pilot Konstantin Dotcenko, 35,** is a multi-time F3C National Champion. He is an Internet Marketing Manager. Konstantin will be flying a Hirobo Freya Evo OP.



**Pilot Sergey Filippenkov, 39,** is an FAI World Record holder. He has been aeromodeling for 25 years and involved in F3C for nine years. He is a multi-time F3C National Champion. Sergey will be flying a Hirobo Eagle 3.



### Singapore

**Team Manager Chen Chong, 44,** is an Aerospace R&D Engineer/Businessman. He has been aeromodeling for 28 years.

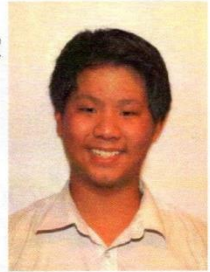


**Pilot Frederick Chong, 17,** is a student. He has been aeromodeling for 11 years and involved with F3C for two years. He finished fourth in P3C during the 2007 Hirobo Cup, second in the F3C Nationals, and 12th in the 2008 Asiatic-Oceanic Continental F3C Championships. Frederick also placed fourth in 2008 F3A, third in 2007 F3A, first in 2006 Advanced, and first in



2005 Clubman during the National Championships. He will be flying a Kyosho Caliber 90.

**Pilot Walther Chong, 15,** has been aeromodeling for six years and involved in F3C for two years. He is a student. He finished fifth in P3C at the 2007 Hirobo Cup, third in the F3C National Championship, 13th in the 2008 Asiatic-Oceanic Continental F3C Championships. During the Nationals he finished first in Sportsman in 2007 and third in Clubman in 2005. He will be flying a Kyosho Caliber 90.



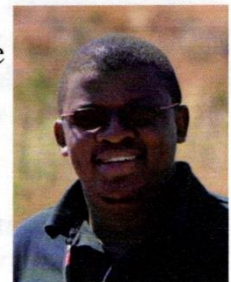
**Pilot Ronald Yong, 33,** is an Assistant Sales Manager. He has been aeromodeling for five years and involved with F3C for one year. Ronald will be flying a Hirobo Eagle 3 WC.

**Helper/Mechanic: Swee Ong and Teck Yong.**



### South Africa

**Team Manager Daniel Ralefeta, 29,** is an Open Source Programmer. He was the Contest Director at the 2009 Nationals. Daniel has been aeromodeling for six years and involved with F3C for two years.



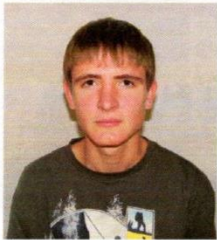
Pilot Rudolf DuToit, 26, has been aeromodeling for 12 years and involved in F3C for three years. He is a draughtsman. He has finished second in 2006 and 2007, third in 2008, and first in the 2009 F3C Nationals, second in the 2006 and 2008 F3C Masters, and 54<sup>th</sup> in the 2007 F3C World Championship. Rudolf will be flying a JR Sylphide.



Pilot Jason Welsh, 18, is a university student. He has been aeromodeling for four years and involved in F3C for three years. In the 2007 F3C World Championship Jason finished fourth in Juniors and 48<sup>th</sup> overall. He finished seventh in the Hirobo Cup International and is the 2008 South African National Champion. Jason will be flying a Hirobo Freya.



Pilot Arney Sieling, 18, has been involved in F3C for four years and aeromodeling for 11 years. In the F3C National Championships Arney finished fourth in 2007 and second in 2008 and 2009. He flew warmup rounds during the 2007 World Championship in Poland. Arney will be flying a JR Air Skipper.



Helper/Mechanic: Johan Sieling, Mike Welsh, and Dawie Rothmann



## South Korea

Team Manager SeungHwan (John) Cho, 41, is the president of an RC helicopter manufacturing company. He has been aeromodeling for 31 years and involved with F3C for 14 years. He has been a Judge for F3C and F3N (3D) for Korea and is Chief Director Judge for the F3C 2009 Korea national team trial for the World Championship.



Pilot Kyung Yong Choi, 42, has participated in the 1997, 1999, 2001, 2003, 2005, and 2007 F3C World Championship. He will be flying a Hirobo Eagle 3.



Pilot Won Ho Choi, 16, participated in the 2007 F3C World Championship. He will be flying a Hirobo Eagle 3.



Pilot Jae Hong Lee, 14, participated in the 3D Masters and 2008 XFC. He will be flying a Stratus 90.



Helper/Mechanic: In Chul Lee and Hyun Seok Ham



## Sweden

Pilot Anders Sandberg, 37, is a Technician. He has been flying F3C for 10 years and aeromodeling for 23 years. Anders participated in the 2008 European Championship. He will be flying a JR Sylphide 90.



Pilot Kirster Thorstensson, 38, has been flying F3C for nine years and aeromodeling for 20 years. He is an Aero Engine Technician. Kirster will be flying a Hirobo Eagle 3 SWM.



Helper/Mechanic: Ulf Nilsson



## Switzerland

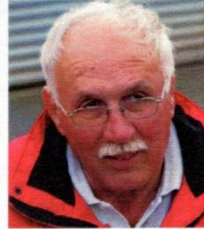
Team Manager Peter Oberli, 67, has been involved in F3C for 30 years and aeromodeling for 55 years. He enjoys traveling and is retired from work. Peter is an F3C expert in the technical committee for the national aero club of Switzerland.



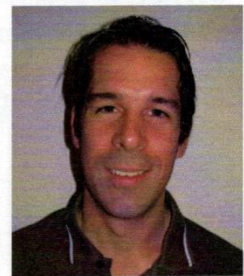
Pilot Ennio Graber, 29, is a teacher. He has been involved in F3C for 13 years and aeromodeling for 16 years. Ennio is a three-time Swiss F3C National Champion (2006, 2007, 2008), ranked second in the European F3C 2008 Championship, and was seventh in the 2007 F3C World Championship. He enjoys tennis, skiing, snowboarding, and beach volleyball. Ennio will be flying a Hirobo Freya Ex II.



Pilot Hans Emmenegger, 60, is a Foreman. He has been involved in F3C for 18 years and aeromodeling for 40 years. He was second in the Swiss F3C National Championship in 2007 and 2008 and 13th in the European F3C Championship in 2008. He enjoys skiing. Hans will be flying a Bucher/Robbe E-Spirit.



Pilot Marc Emmenegger, 29, is a Design Engineer. He enjoys playing ice hockey. He finished third in the 2008 F3C Swiss National Championship. Marc will be flying a Bucher/JR E-Spirit.

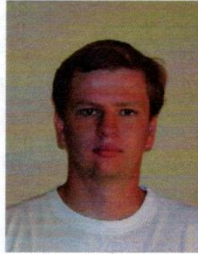


Helper/Mechanic: Marinella Grabaer and Esther Emmenegger



## Ukraine

**Pilot Romanov Oleksandr, 24,** is an engineer. He has participated in the Kiev Heli Show and Modeeka Cup. He has been involved in F3C and aeromodeling for two years. Romanov will be flying an Align T-Rex 700.



**Helper/Mechanic: Dmitry Derigin**



## United Kingdom

**Team Manager Eddie Oliver, 42,** is an Audio/Visual Engineer. He has been a National Judge for two years and a Team Manager for two years. Eddie has been involved in F3C for two years and aeromodeling for five years.



**Pilot Steve Roberts, 26,** works in the model distribution industry. He is a two-time British National Champion, five-time Scottish National Champion, placed 13th in the 2007 World Championship, and was sixth in the 2008 European Championship. Steve will be flying a JR Sylphide 90.



**Pilot Mark Christy, 29,** is a Software Engineer. He has been involved in F3C for 18 years and aeromodeling for 23 years. Mark is a seven-time national champion, two-time European Championship runner-up, and a two-time World Championship 10<sup>th</sup>-place finisher. He will be flying a Avant Aurora.



**Pilot, Dave Fisher, 47,** is the owner of Flyin' Fish RC Heli Flight Tuition School. Dave was the British Team Manager since 2002 and the National F3C Champion in 2006 and 2008. He has been involved in F3C for 10 years and aeromodeling for 20 years. Dave will be flying a Blitz Helicopters Avro.



**Helper/Mechanic: Paul Roberts, Julie Fisher, and Andy Hinton-Lever**



## USA

**Team Manager Mike Goza, 48,** is a Robotic Engineer with NASA Johnson Space Center. He was the 2005 World Championship team manager. Mike has been involved in F3C for 20 years and aeromodeling for 36 years.



Pilot Curtis Youngblood, 40, is the owner of Curtis Youngblood Enterprises. He has been involved in F3C for 24 years and aeromodeling for 26 years. Curtis is a three-time World Champion, 18-time US National Champion, and world-renowned 3D pilot. Curtis will be flying a JR Vibe.



Pilot Dwight Shilling, 51, finished fifth in the 1995 World Championship and ninth in the 1999 World Championship. He works as a consultant. Dwight has been involved with F3C for 19 years and aeromodeling for 26 years. He will be flying a Kyosho Caliber 90 Version 06.



Pilot Wayne Mann, 48, is a consultant for Futaba Corporation and runs an RC helicopter aerial photography business. Wayne has 50 US F3C competition wins and has been on every WC team since 1991. He has been involved in F3C for 23 years and aeromodeling for 37 years. Wayne will be flying a Kyosho Caliber 90 version 06.



Helper/Mechanic: Dave Youngblood, Richard Mann, and Nob Muraki



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