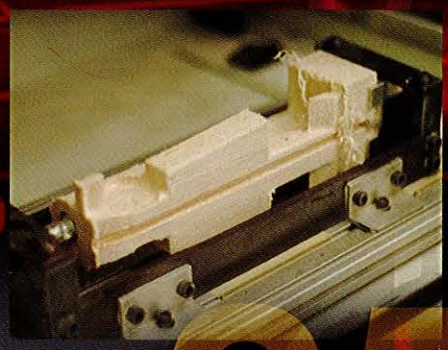


15th Anniversary

770263 8160

countries



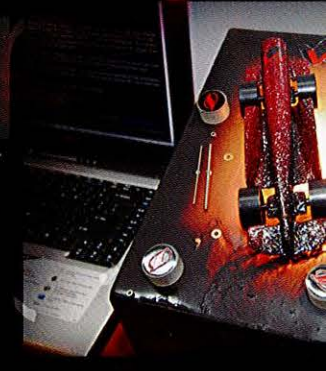
25 teams

Make

Design

1

experience of a lifetime



# 2008 World Championships Kuala Lumpur, Malaysia

18-20 March 2008 • Sunway Resort Hotel & Spa, Kuala Lumpur

[www.f1inschools.com](http://www.f1inschools.com)



**F1 IN SCHOOLS**  
Sdn Bhd (686660-X)



# message

## Minister of Education Malaysia



As we move forward into the 21st century, the quantum leap in technology spurred tremendous opportunities in a knowledge-based economy. The ultimate challenge in the education system is to produce relevant, resilient and competent human capital to face the challenges in this competitive and borderless world.

We realize globalization increases opportunities through competition among nations. In order to maintain a competitive edge as a global player we have to adopt innovative learning strategies in our schools to prepare our young to take on this challenge. We need to carve a niche for ourselves by producing students of distinction and excellence.

F1 In Schools™ Technology Challenge is one of the learning strategies which had been proven to be successful in nurturing students' interest in the field of science, engineering and technology. This strategy fosters a mindset of continual innovation, entrepreneurship and sportsmanship in a fun and exciting learning environment.

We welcome all participating teams to Malaysia for this international event. It is our hope that all participants will gain much from this rewarding educational experience. To the budding scientists, engineers and entrepreneurs, you should carry yourself up high as you will compete against the best from many countries. From this competition, I am confident that you will bring home the lessons learned as well as the experiences gained and lots of fond memories.

**Dato' Seri Hishammuddin Tun Hussein**





# message

## Chairman, F1 Inschools Sdn Bhd

The stage is set. The teams are ready. The experience of a lifetime is about to begin.

To all participating teams, officials and guests, I welcome you.

In 2005, when the programme was first introduced in this country, we only had 14 teams competing. Last year, that figure grew to an overwhelming 439 teams. Today, for the first time, Malaysia will play host to the F1 In Schools™ 2008 World Championships, the 4th edition of the global F1 In Schools™ Technology Challenge. This is more than just a nation's pride; it is in fact a testimony to the Malaysian education success.

Needless to say, all these would not have been possible without the unwavering support of YB Dato' Seri Hishammuddin Tun Hussein, our Minister of Education. Through his leadership and guidance, the team at the Ministry has been feverously striving to better the Malaysian education system. For that, we are indeed grateful for Dato' Seri's sheer determination and vision.



To the sponsors, I thank you for the continuous support you have provided us, especially to those who have been with us from day one. The support has given us confidence in ensuring that this year's event would be one to remember.

Members of the media, the continuous support that you have given us has been tremendous. Thank you for your cooperation in positioning this programme on a higher platform. You have truly proven that the pen is indeed mightier than the sword. I hope and urge all of you to continue providing us with your support in the years to come.

Finally, allow me to once again extend a very warm Malaysian welcome to all participating teams, officials and fellow guests.

I wish all participants the best in this year's World Championships and I hope you are ready for an exhilarating experience like no other. Remember, you have been given the privilege to represent your country, do your country proud and make each other proud.

*Selamat Datang!* And let the Championship begins!

Thank You.

**Dato' Haji Abdul Halim Haji Abdul Samad**



# message

## Founder, F1 In Schools™



Welcome to Malaysia and 4th F1 In Schools™ World Championships.

Congratulations to all teams for making it here to the Sunway Resort Hotel & Spa from all corners of the world.

This promises to be a truly amazing week for all concerned.

Our partners F1 In Schools™ Malaysia and the event host, the Ministry of Education have put an enormous amount of effort and energy into making this week a memorable occasion and one which, we hope will be remembered for years to come.

I wish the teams the very best of luck and hope you thoroughly enjoy the week.

May the best team win!

**Andrew Denford**





# milestone

- 1999** F1 in Schools™ Technology Challenge pilots in the UK.
- 2000** Debut of national competition in the UK.
- 2001** 1st UK National Championships with 6 regional rounds.
- 2002** F1 In Schools™ is franchised internationally across four countries. UK competition expands to cover 10 regions.
- 2003** International competition expands to cover 11 countries.
- 2004** Debut of World Championships in the UK is won by Team Turbo, Bloomsburg High School, Pennsylvania, USA.
- 2005** Bernie Ecclestone, Chief Executive of the Formula One™ Group, grants F1 In Schools™ rights to trademark protected logo and donates the Bernie Ecclestone Trophy for the future world champions.  
International competition expands to cover 18 countries.  
The F1 in Schools™ Technology Challenge is introduced in Malaysia by the Ministry of Education (MOE) in secondary schools as a co-curriculum activity. The highly anticipated pilot programme sees 14 schools being short-listed for the National Finals.  
Officiated by Malaysia's Minister of Education, YB Dato' Seri Hishammuddin Tun Hussein, team Aerobreaker from SMK Taman Melawati emerges as Overall Champions and represents Malaysia at the 2nd World Championships.
- 2006** 2nd World Championships in Birmingham, UK is won by The Stingers, Trinity Grammar, Melbourne, Australia.  
Team Aerobreaker of Malaysia breaks the world record with The Fastest Car Award at 1.083s on a 20m track, beating 17 other teams from 11 countries.  
Manufacturing Center (MC), a fully equipped F1 In Schools™ Technology Challenge and Rekapipta equipment center, are set up in 114 selected schools across Malaysia.



The programme receives solid support from the Ministry of Education and is included under the National Education Blueprint (*Pelan Induk Pembangunan Pendidikan*) under the Ninth Malaysia Plan (RMK9).

40 teams from the Klang Valley and Negeri Sembilan participate in the PETRONAS National Final, held in Kuala Lumpur and officiated by Deputy Minister of Education YB Dato' Hon Choon Kim. Team Mercurial Ace from SMK Convent Bukit Nanas emerges as the Overall Champions.

**2007** 3rd World Championships in Melbourne, Australia is won by Team FUGA, Coleraine Academical Institution, Northern Ireland.

International competition expands to cover 22 countries.

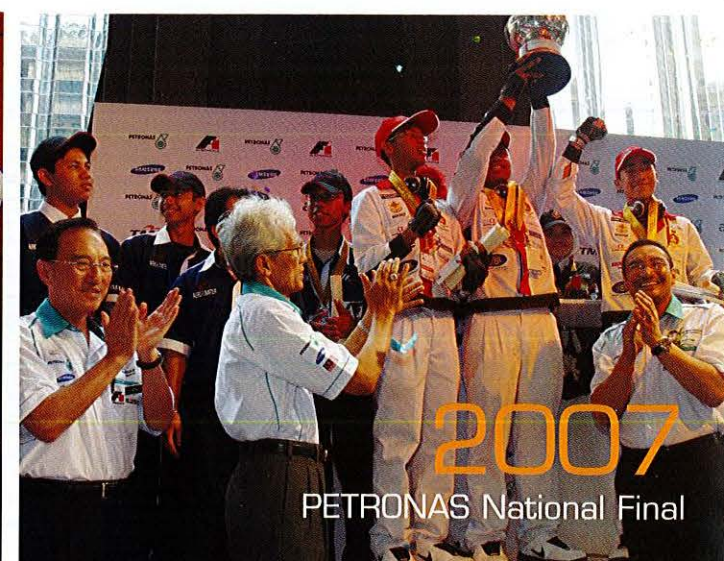
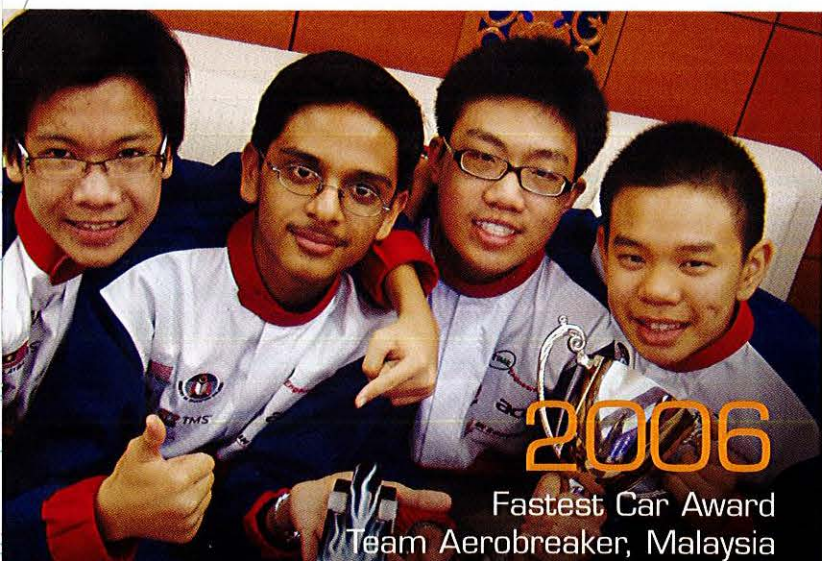
Team Mercurial Ace of Malaysia achieves 3rd Overall and Outstanding Sportsmanship Award. Their wins mark another Malaysian educational milestone in the F1 in Schools™ Technology Challenge programme.

Regional Finals of the 6 zones are held in Kedah, Perak, Negeri Sembilan, Johor, Terengganu and Sabah. A total of 439 teams from all states participate in the competitions, including 17 teams from the *Rancangan Integrasi Murid Untuk Perpaduan* (RIMUP) or Students' Integration Plan for Unity programme, turning a vision of student integration into reality.

30 teams nationwide participate in the PETRONAS National Final, held in Kuala Lumpur and officiated by Education Minister YB Dato' Seri Hishammuddin Tun Hussein.

Team Rapid Blaze from the Royal Military College, Kuala Lumpur emerges as the Overall Champions. Together with Team Frontier from Sekolah Sultan Alam Shah, Putrajaya and The Excaliburs from SMK Seksyen 9, Shah Alam (Collaborative Team with Germany), the three teams are representing Malaysia at the 4th World Championships in Kuala Lumpur in March 2008.

**2008** 4th World Championships, Kuala Lumpur, Malaysia. 15 countries, 25 teams, one lifetime experience!




## List of Participants

	Country	Team Name	Team Members
1	 AUSTRALIA	Impulse F1	Matt Cruickshank Tom Crookes Alex Womersley Mike Heard Matt Turner
2	 AUSTRALIA	Goshawk	Luke Abberton Alistair Smith Daniel Boucher Edward Larkin
3	 CHINA	Yong Shi	Rui Tai Hu Emily Yu Jason Charles Yu Aaron William Young Fred Chang Minette Bosch
4	 CHINA	Guang Su	Sophie Stewart Alex Downham Franklyn Zhu Michael Li Cassie Turner Christina Arbenz
5	 ENGLAND	Pulse	John Ware Samuel Wood Andrew Lees Thomas Simpson
6	 FRANCE	PITOMIA	Hadrien Ernisse Mickaël Amorim de Barros Thomas Colonna D'Istria Thomas de Pujo
7	 GERMANY	Friesen Design	Christian Kleinwachter Chris Kollack Kevin Krey Ole Welschehold Andre Wolk
8	 HONG KONG	Dragons	Bhavdeep Dhingra Jonathan Ku Kenta Arai Ryan Chan Kyung Tae Park Charles Ng
9	 KUWAIT	LoYAC Racing	Nikhil Maitra Scott Egan Ayiri (A.J) Harrison Nadine Defensor Ross Degerhardt Fouad Taoun
10	 MALAYSIA	Rapid Blaze	Ulya Aqamah Bin Husamudin Shah-Arif Bin Mohd Shah Saiful Azreen Bin Mat Isa Mohd Shahrul Idham Bin Azeman
11	 MALAYSIA	Frontier	Khairul Nadzrin Bin Khairul Zaman Muhammad Afiq Aqwa Bin Md Mansor Mohamad Kamal Bin Mohamed Lazi Wan Iman Izzat Bin Wan Khairil Anuar
12	 NORTHERN IRELAND	FUGA	Matthew Adams Andrew Avery Colin Henry Tom He (Zan Zan He) Michael Wallace
13	 NORTHERN IRELAND	DNA	Neal Bate Daniel Davidson Matthew Wightman

## List of Participants

	Country	Team Name	Team Members
14	 SCOTLAND	XLR8	Conor Reed Natalie Martin Stephanie Shaw Hazel Guthrie Annie Yacomini David Thompson
15	 SINGAPORE	SONIC_T	Leonard Teo Min Xuan Robin Peck Yue Tian Chan Zheng Hao
16	 SOUTH AFRICA	Team Zealous	Hugo Minnear Coenraad Grünschloss Michelle Bezuidenhout Marleen Bruwer Johannes Jonker
17	 SOUTH AFRICA	Team Crushers	Phakamani Mandoyi Linda Skhosana Mbusiswa Mkhize
18	 IRELAND	Gear Force	Jason Ryan David Whyte Richard Childs Graham Quirke Eoin Kennedy
19	 UNITED KINGDOM	Team Momentus	Matthew Bugler Thomas Long Nathan Riley
20	 USA	S.E.M. Racing	Matt Crnarich Eric Arden Sean O'Brien
21	 WALES	Blaze	Patrick Pang Nathan Dix Lewys Jenkins Thomas Walbyoff Stacey Davies Tammy Thomas

## Collaborative Teams

22	 GERMANY	The Excaliburs	Ramona Montanus Rona Heuermann Melina Heuermann
	 MALAYSIA		Acacia Mardiana Binti Daud Ili Syahirah Binti Zainal Abidin Kaiyisah Binti Abu Saffian
23	 SOUTH AFRICA	Team Fusion	Roscoe McLean Duncan McKune Geoff Brown
	 SCOTLAND		Steven Welsh Grant Duffy Joao Martins
24	 SINGAPORE	Inferno	Tan Hui Min Chan Xi Wen Lee Si Min Xie Cai Jing
	 USA		Patrick Doherty
25	 USA	Team Hybrid	Tyler Gagat Geoff Gagat Peter Moot
	 SCOTLAND		Andrew Howe Stacey Haldane Gemma Henderson



## The Vision

F1 in Schools Ltd is a not-for-profit company established with committed partners to provide an exciting yet challenging educational experience through the magnetic appeal of Formula One™.

F1 in Schools is rapidly realising its potential of becoming the only truly global educational programme that raises awareness of Formula One™ among students and school children in every region, in every country, on every continent.

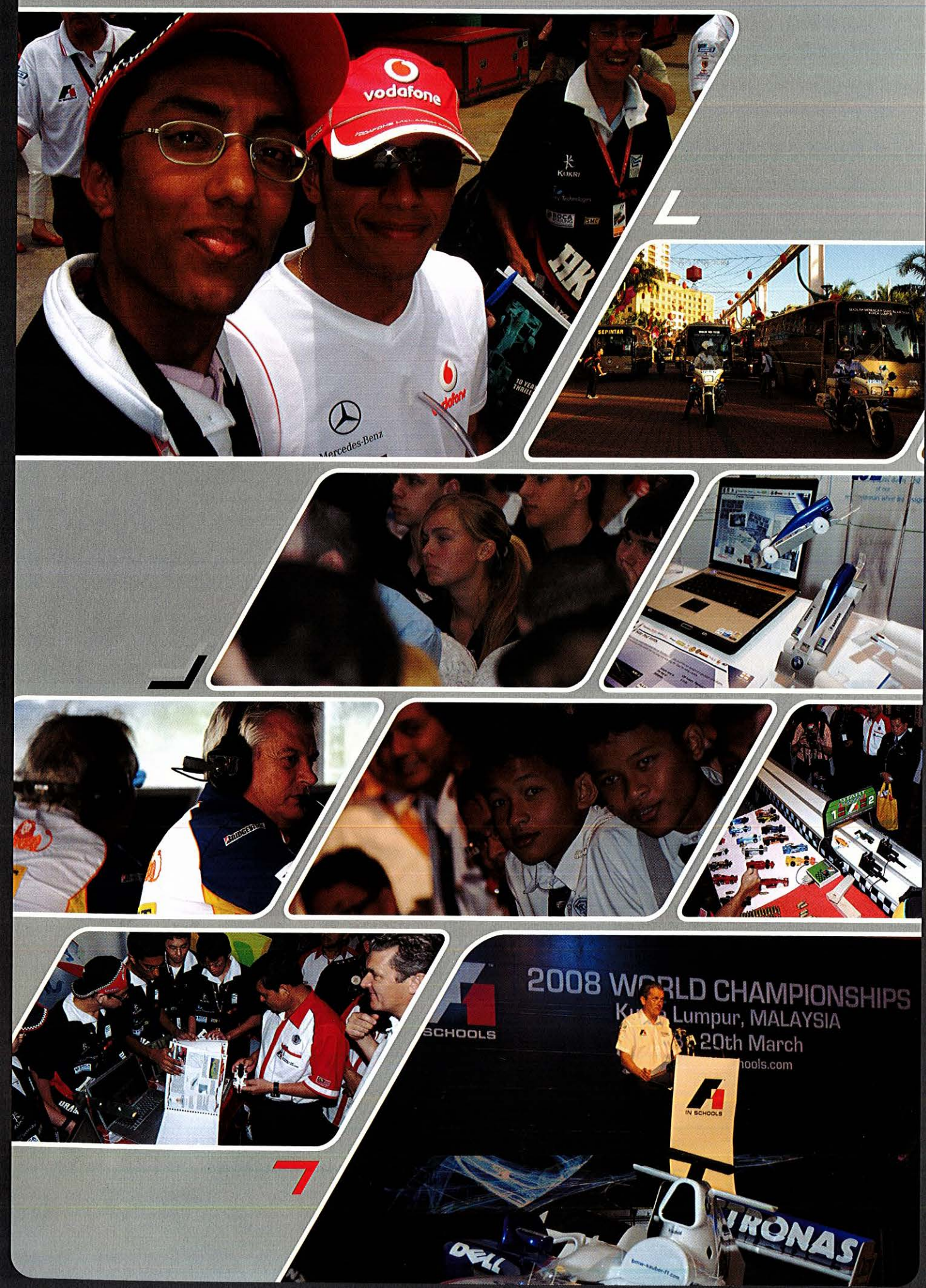
Spanning age ranges of 9 to 19 its main objective is to help change perceptions of engineering, science and technology by creating a fun and exciting learning environment for young people to develop an informed view about careers in engineering, Formula One™, science, marketing and technology.

30 countries... 9 million students...

**1 experience of a lifetime !**



Andrew Denford, founder and chairman of F1 in Schools at the Motorsport Business Forum, Bahrain, April 2008.



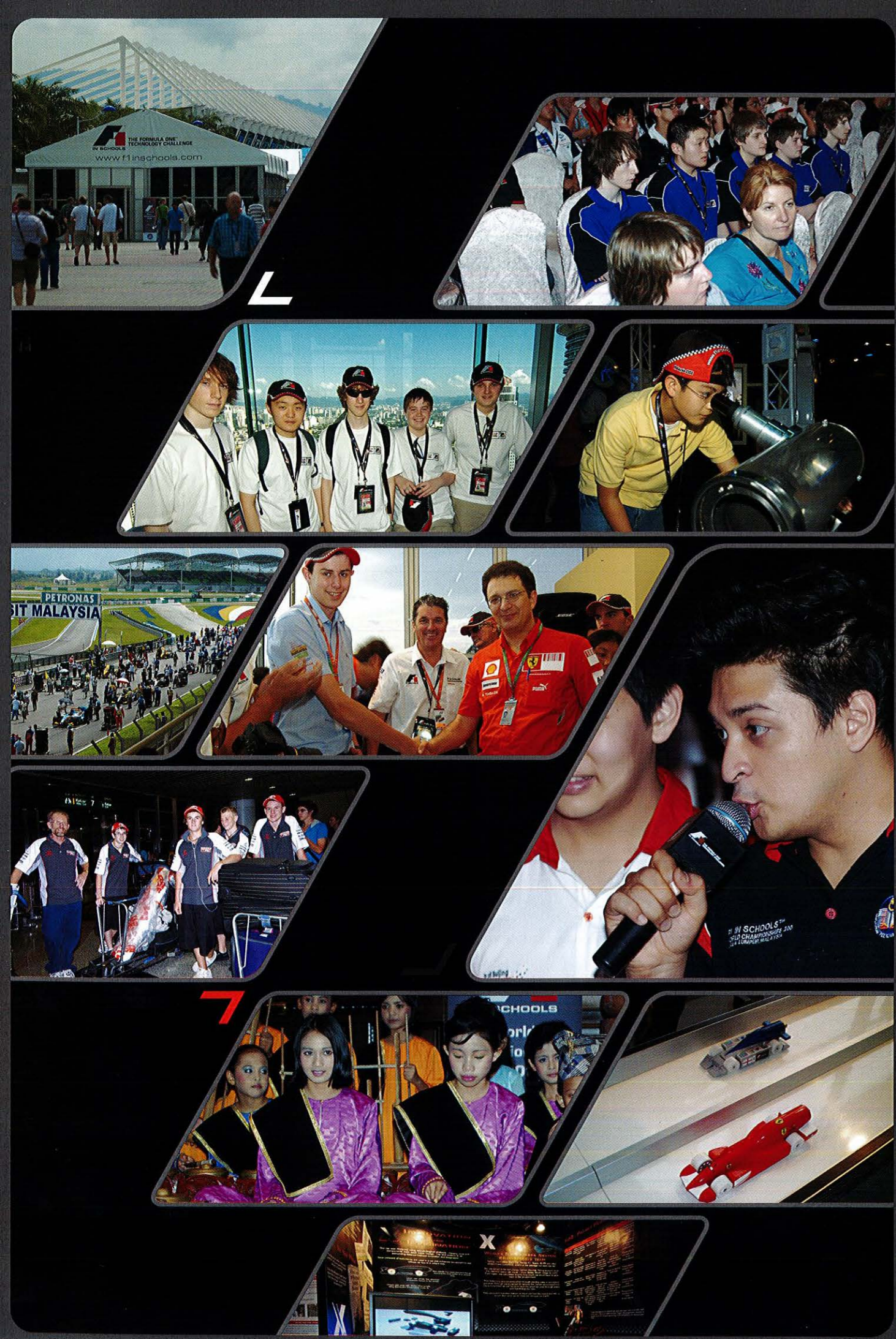


# 2008 World Championships, Petronas Towers, Kuala Lumpur

March 2008



kuala lumpur 2008



## Introduction

- F1 in Schools is a multi-disciplinary challenge in which teams of students aged 9 to 19 deploy CAD/CAM software to collaborate, design, analyse, manufacture, test and race miniature gas powered balsa wood F1 cars.
- F1 in Schools is the only global multi-disciplinary challenge for students aged 9 to 19.
- F1 in Schools is the only student challenge to have developed international collaborative teams made up of students of different nationalities in different countries, who work together using ICT.
- It is a unique global platform for the promotion of Formula One™ and partners to a youth market.
- Teams must raise sponsorship and manage budgets to fund research, travel and accommodation.
- The challenge inspires students to use IT to learn about physics, aerodynamics, design, manufacture, branding, graphics, sponsorship, marketing, leadership, teamwork, media skills and financial strategy, and apply them in a practical, imaginative, competitive and exciting way.
- The founding constitution of F1 in Schools stipulates that it is, and shall remain, a not-for-profit organisation. Funds raised through sponsorship are invested in administering, developing and expanding the challenge. All income is deployed in accordance with guidelines laid down by Formula One™ Management.

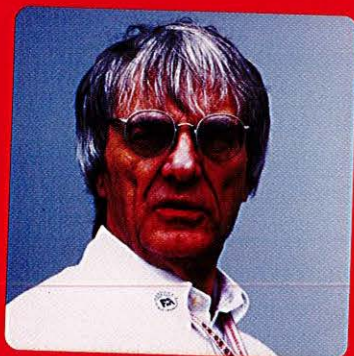
introduction



## Formula One™ Management

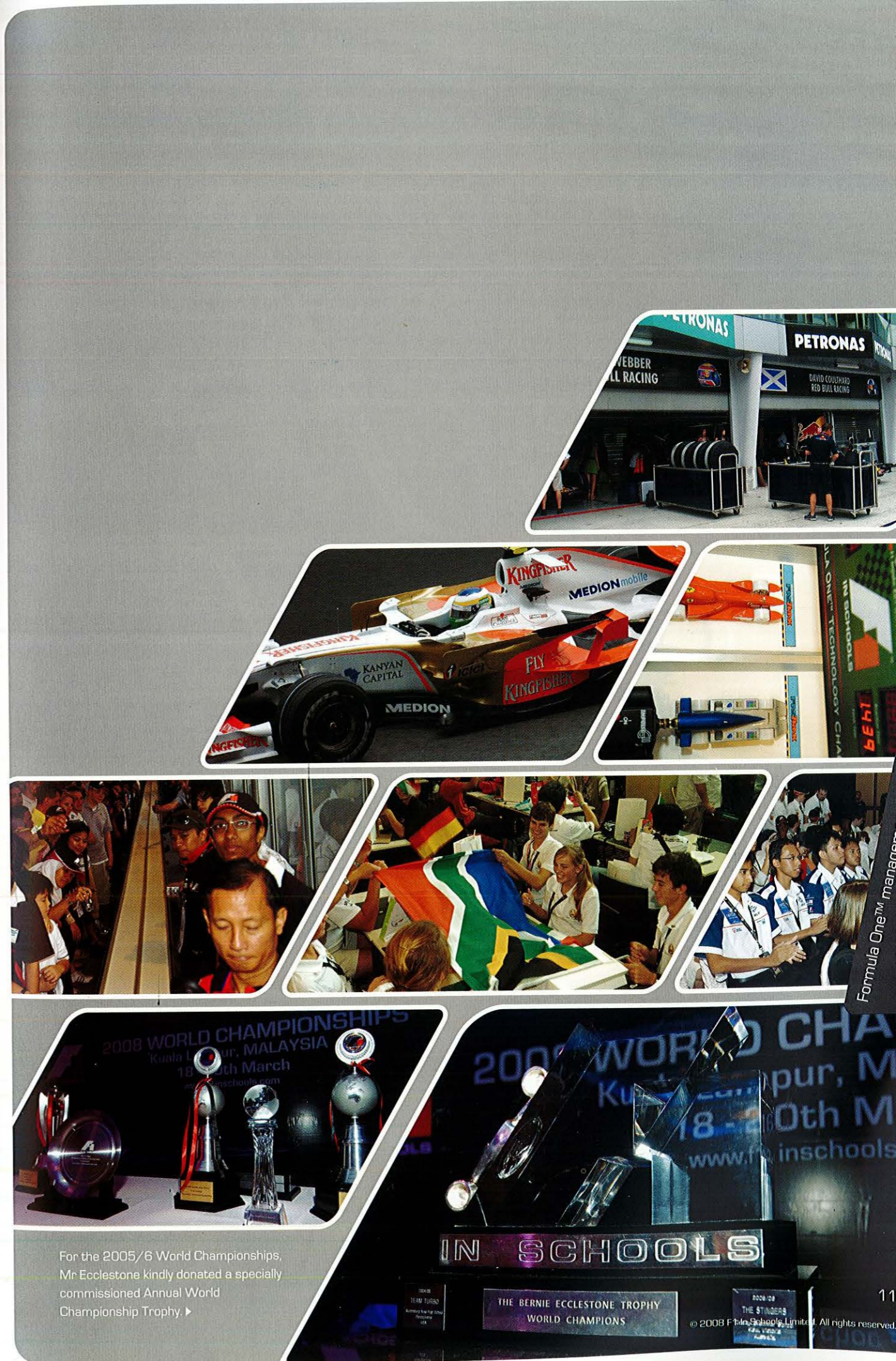
Bernie Ecclestone, Chief Executive of The Formula One™ Group, granted F1 in Schools a world-wide protected trademark and new logo in June 2005.

F1 in Schools was launched in association with The Formula One™ Group at the Cass Business School in London in November 2005.



“ We are delighted to be supporting F1 in Schools. It is extremely important to the future of our sport to encourage young people to enter into the world of high performance engineering. F1 in Schools is a truly global challenge which meets all the objectives of our business. ”

Bernie Ecclestone,  
Chief Executive of The Formula One™ Group  
August 2005



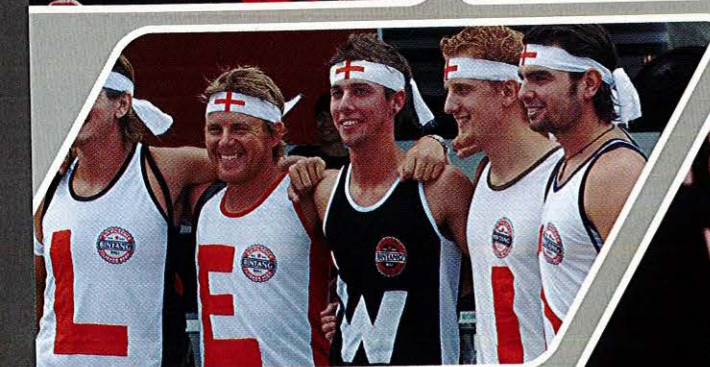
For the 2005/6 World Championships, Mr Ecclestone kindly donated a specially commissioned Annual World Championship Trophy. ▶

IN SCHOOLS

THE BERNIE ECCLESTONE TROPHY  
WORLD CHAMPIONS

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Formula One™ management



## A Total Educational Experience

By taking part in the F1 in Schools Technology Challenge students are able to experience many areas of education and learning - way beyond the technology used just to manufacture the cars. F1 in Schools is a project in itself that can be put towards achieving qualifications in many areas across the curriculum

### KEY SKILLS / FUNCTIONAL SKILLS

- Application of numbers
- Communication
- Use of Information & Communication Technology (ICT)
- Managing own learning/personal planning
- Problem solving
- Team leadership/management
- Personal Learning and Thinking Skills

### VOCATIONAL APPLIED COURSES

- GCSE Engineering
- 14-19 Diploma in Engineering

### WORK RELATED LEARNING

- Action Learning
- Learning about work
- Learning through work
- Learning for work
- Mechanical design and build
- Computer Aided Design

### ENTREPRENEURSHIP SKILLS

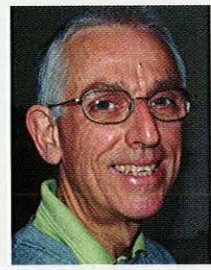
### DIGITAL MANUFACTURING

- NATIONAL CURRICULUM**
- Enhancement /enrichment of Science, Technology, Engineering & Maths (STEM)
- Cross-curricular (key skills)
- ICT (in a context) - cross curricular
- Resistant materials
- Graphic products

### EVERY CHILD MATTERS

- Behaviour - motivation
- Global Collaboration

"Getting involved with F1 in Schools was the best thing I could have done to bring engineering to life in my department. As a result, the number of students opting to take up engineering at university has risen steadily year on year and doors have been opened to other opportunities related to engineering that I would otherwise have been unaware of. The students directly involved with the challenge have had enormous fun and have become very desirable to universities that recognise the extra dimension they have bolted on to their profiles through being part of such a rich team activity. Several



of my students have returned from interviews saying that all the interviewer wanted to talk about was the F1 challenge! I recommend that you give it a go..."  
 Ian Netherclef,  
 Teacher,  
 Woodhouse School,  
 London, UK.

"F1 in schools is the most exciting opportunity I have ever experienced in schools. Through F1 in Schools Australia, our students have been given the opportunity to work with state of the art software.



The F1 in schools program passionately engages students in high industry standard engineering."  
 Barb Duncan  
 TECHNOLOGY KLA,  
 Bentleigh Secondary College,  
 Melbourne, Australia.

a total educational experience



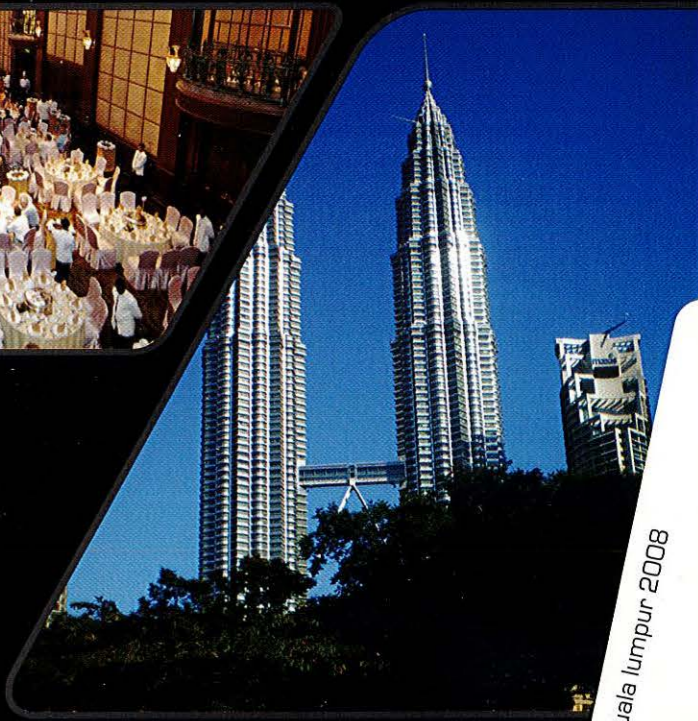
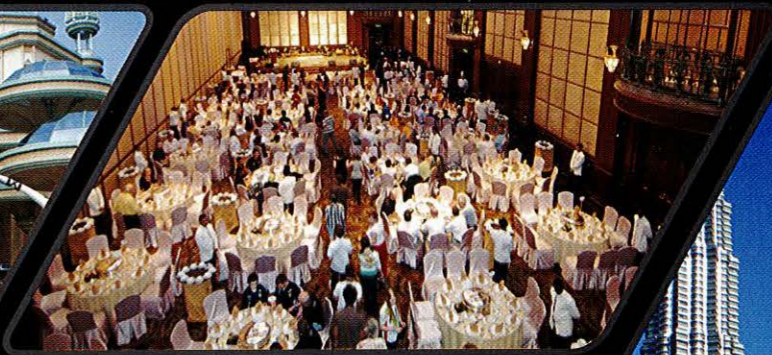
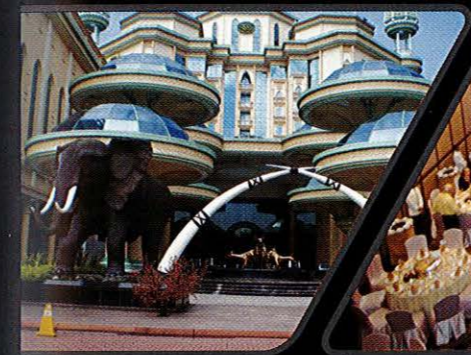
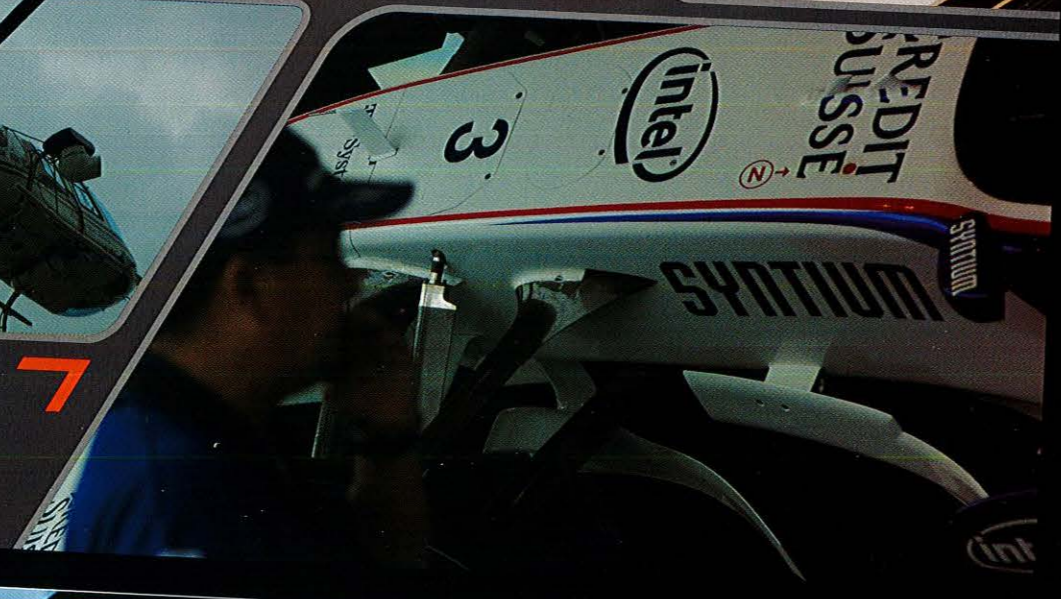
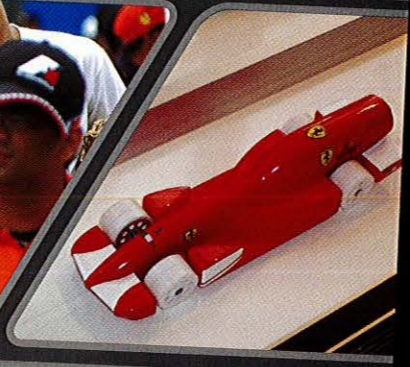
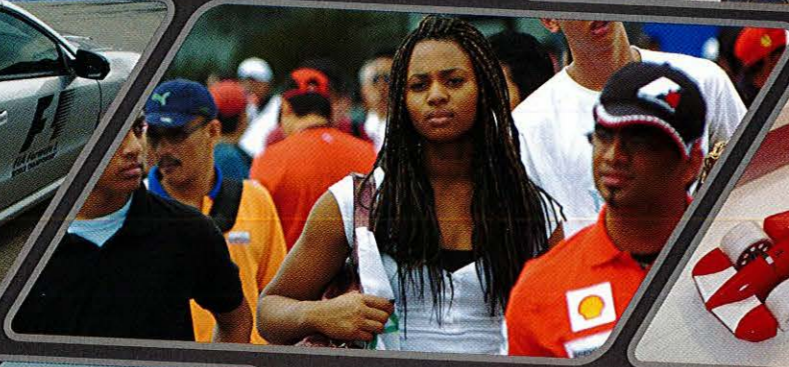
**2008 WORLD CHAMPIONSHIPS**  
Kuala Lumpur, MALAYSIA  
18-20th  
www.f1inschools.com

**THE FORMULA ONE™  
TECHNOLOGY CHALLENGE**

**THE FORMULA ONE™  
TECHNOLOGY CHALLENGE**

2008 world championships

# WHERE COULD F1 IN SCHOOLS TAKE YOU?



Kuala Lumpur 2008



## History

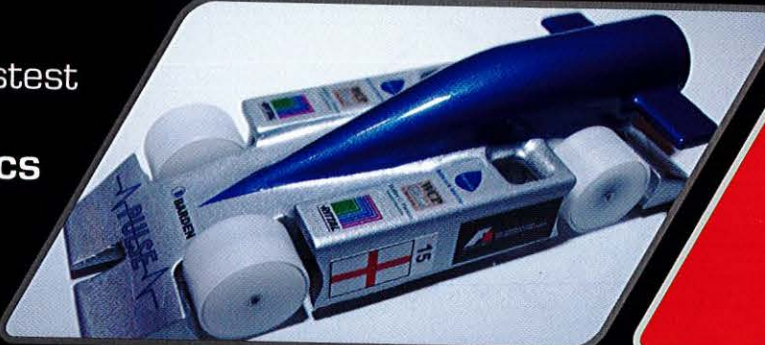
- 1999** F1 in Schools piloted in the UK
- 2000** Debut as a national competition
- 2001** 6 regional rounds take place in UK, culminating in the first UK National Championships
- 2002** F1 in Schools is franchised internationally across four countries. UK competition expands to cover 10 regions.
- 2003** International competition expands to cover 11 countries.
- 2004** Debut World Championships take place at Jaguar, Castle Bromwich, UK, won by Team Turbo, Bloomsburg High School, Pennsylvania, USA.
- 2005** Bernie Ecclestone, Chief Executive of The Formula One Group, grants F1 in Schools rights to trademark protected logo and donates the Bernie Ecclestone Trophy for the World Champions. James Allen (ITV), Ross Brawn (Ferrari), Sam Michael (Williams), Pat Symonds (Renault), Mike Gascoyne (Spyker), Geoff Willis (Honda) become patrons. International competition expands to cover 18 countries.
- 2006** Second World Championships, Autosport International, NEC, Birmingham, won by The Stingers, Trinity Grammar, Melbourne, Australia. ITV (UK) cover one-off Honda vs Ferrari vs Students shoot-out at the Indianapolis Grand Prix.
- 2007** International competition expands to cover 22 countries. Adrian Newey, Chief Technical Officer, Red Bull Technology, joins as patron. Third World Championships, Melbourne, Australia, won by Team FUGA, Coleraine Academical Institution, Northern Ireland.
- 2008** Fourth World Championship, Kuala Lumpur, Malaysia. Won by Team Pulse from England. F1 in Schools sees expansion into Spain and the Middle East. Now in 30 countries.

history



World Champions &  
Fastest Car  
**Team Pulse**  
England

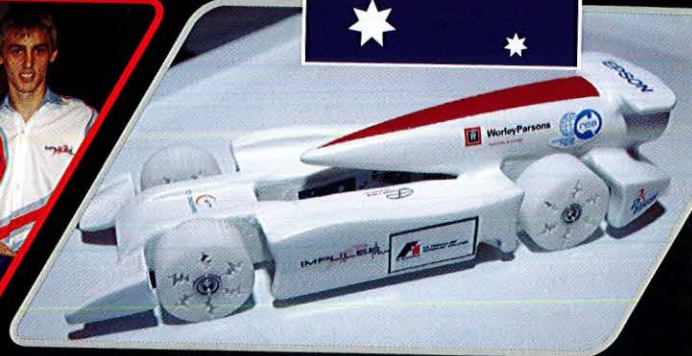
Team Pulse's fastest  
car time...  
...1.064 secs



2nd Overall  
World Champion  
& Best Engineered Car  
**Goshawk**  
Australia



3rd Overall  
World Champion  
**Impulse F1**  
Australia



## 2008 World Championships, Kuala Lumpur, Malaysia



Innovative Thinking Award  
**Team Momentus**  
United Kingdom

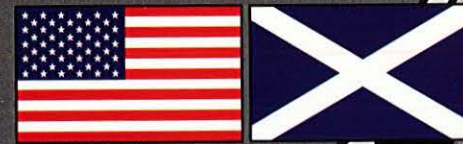
Best New Comer  
Award  
**Team Pitomia**  
France



Best Team  
Sponsorship / Marketing  
**Sonic\_T**  
Singapore



Collaborative Teams  
1st Place  
**Team Hybrid**  
USA / Scotland



Best Team Identity  
**Team Blaze**  
Wales



2008 world champions



# Crowning of World Champions Sunway Lagoon Resort Hotel, Kuala Lumpur

March 2008



2008 world championships



2008 world champions

VERITAS





petronas towers, kuala lumpur



SEPANG

2008 world championships

THE FORMULA ONE  
TECHNOLOGY CHALLENGE