



EVENT REPORT

SUMMARY



The 2017 World Finals in Kuala Lumpur was another fantastic event in the F1 in Schools™ calendar.

Each day of the competition produced excitement, high tension and drama, with the absolute determination and commitment of the competitors shining through.

I am so proud of the quality of work produced by the teams, who once again, raised the level of the competition to a significant high, with incredible pit displays, backed up with enthusiasm and dedication to their designs, together with an eagerness to share the culture of their home countries.

I marvel at everything I saw during the event; the teamwork, the displays, the presentations, and the level of detail included in the portfolios, which were all of the very highest standard. It was an amazing few days with such talented students, who should all be very proud of themselves. I must, of course, particularly congratulate Team Hyperdrive, who were fully justified in becoming World Champions 2017!

Andrew Denford,
Founder and Chairman,
F1 in Schools Ltd.

We, at F1 in Schools, are extremely proud to have the support of Chase Carey and Formula 1. We are indebted to Chase for making the time to join us for the Awards Evening and for taking the time to meet with all the teams, see their work and celebrate with us. It has already had a massive positive impact. I know all the students really appreciate the support of Formula 1, the Teams and Partners, and their presence at our Awards Celebration Gala Dinner made for the experience of a lifetime!

I must finally congratulate all the teams for showing such creativity and dedication and for making the 2017 World Finals such a great showcase for the future of Formula 1.

We are already looking forward to the 2018 season, and the next World Finals, which will be held in Singapore.



CHAIR OF JUDGES, PROFESSOR STEVE GRIGG AND HOST, DAVID CROFT



THE CHALLENGE



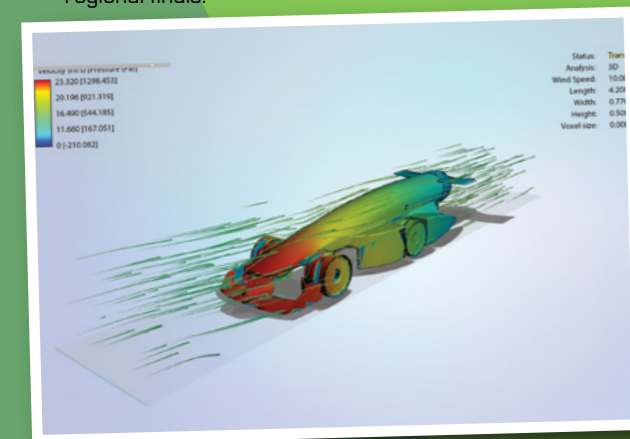
1 - FORM AN F1 IN SCHOOLS™ TEAM

A **team** is formed of three - six students, with a team name, allocated job roles; Team Manager, Manufacturing Engineer, Design Engineer, Graphic Designer and Resource Manager.....The team then register for the regional finals.



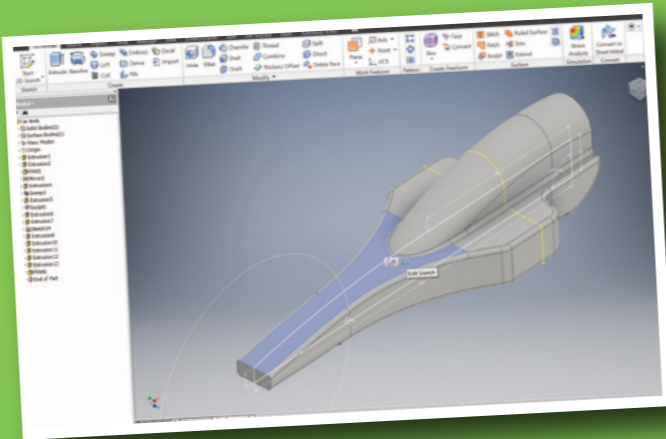
2 - BUSINESS AND SPONSORSHIP PLAN

The team prepare a **business plan**, develop a budget and raise sponsorship. Teams are encourage to collaborate with industry and create business links.



4 - ANALYSE

Aerodynamics are **analysed** for drag coefficient in a Virtual Reality Wind Tunnel using Computational Fluid Dynamics software (CFD).



3 - DESIGN



Using 3D CAD (Computer Aided Design) software, the team **designs** an F1 car of the future to the specification set by the International Rules Committee, just like in Formula 1.



5 - MAKE

Using 3D CAM (Computer Aided Manufacture) software, the team evaluates the most efficient machining strategy to **make** the car.



6 - TEST

Aerodynamics are **tested** in wind and smoke tunnels. Aerodynamics is a major focus for all teams involved in the world of Formula 1 and can make the difference to a winning team. Students can fine tune designs to optimise speed and drag co-efficiency.



10 - VERBAL PRESENTATION

Teams prepare a presentation to perform to a panel of judges covering all aspects of the challenge. This is presented within a set time limit (10 mins).



7 - PIT BOOTH

Teams put together an informative display showing their work through all stages of the competition, also incorporating their team identity.



11 - PORTFOLIOS JUDGING

The teams put together two 10 page A3 portfolios documenting their project.



8 - SCRUTINEERING

Cars are submitted to parc fermé where the judges scrutinize every dimension to check they comply with the Rules and Regulations.



9 - ENGINEERING JUDGING

Judges question teams on how their car has been manufactured and why particular designs were chosen.



















12 - RACE

















Teams are judged on car speed, as well as supporting evidence of their design, verbal presentation and marketing display stand in "the pits".

Teams put the cars to their ultimate test by **racing** them over a measured distance with the F1 in Schools 20m elevated track and F1 in Schools race system.

COMPETING TEAMS

TEAM NO.	TEAM NAME	COUNTRY	SCHOOL
 T01	Interstellar M1	United States	Brentwood High School
 T02	Team QiQi	Hong Kong	Chinese International School
 T03	Desert Force	United Arab Emirates	Umm Al Arab School
 T04	Stallion Racing	Spain	Sotogrande International School
 T05	Team Phoenix	Japan	Fukui Senior High School
 T06	Lightning	China	Beijing Dongcheng District Chongwen Youth Science and Technology Museum
 T07	Synchro 9	Malaysia	Smk Seksyen 9
 T08	celerity.team	Germany	Märkisches Gymnasium Iserlohn
 T09	Team HedgeX	Brazil & Portugal	Colégio Vértice, Escola Secundaria Alves Martins and Escola Padre Benjamim Salgado
 T10	21 m/s	United Arab Emirates	Our Own High School, Al Warqa'a-Dubai
 T11	Volcan	Scotland	Aberdeen Grammar School
 T12	Team Quantum	Ireland & Malaysia	Marist College & Smk Agama Johor Bahru
 T13	Fusion	Cyprus & Greece	The English School, Nicosia, The Falcon School, Nicosia & Music School of Ptolemaida
 T14	Achaia Racing Team	Greece	Arsakeio School of Patras
 T15	Vortex	United Arab Emirates	Gems Wellington International School
 T16	Golden Diversity	Australia	Queechy High School

COMPETING TEAMS

TEAM NO.	TEAM NAME	COUNTRY	SCHOOL
 T17	Irruenti BG	Mexico	Cobach Sonora / Cecyte
 T18	Ace Racing	Cyprus	The English School
 T19	Maverick Racing	Malaysia	Smk Sultanah Hajjah Kalsom
 T20	Envisity	Australia	Mount View High School
 T21	Victorum Racing	Ireland	St. Brigid's College
 T22	Team Celer	Brazil	Colégio Vértice
 T23	Dehjo Racing	Thailand	Amnuay Silpa School
 T24	BWT - Swift	Austria	Htl Steyr And Vienna International School
 T25	Innovative Dream	China	Beijing Dongcheng District Chongwen Youth Science and Technology Museum
 T26	Pioneers	Germany	Gymnasium Kronshagen
 T27	Origin	United Kingdom	Robert May's School
 T28	ZEHBA	Bahrain	The Bahrain Bayan School
 T29	Precision Racing	United States	Granbury High School
 T30	Pegasus	Cyprus	The English School, Nicosia
 T31	Photon Racing	Vietnam	British International School Ho Chi Minh
 T32	Tiro Racing	England	Kingston College

COMPETING TEAMS

TEAM NO.	TEAM NAME	COUNTRY	SCHOOL
 T33	Global Score	Jordan	Alseela Secondary School
 T34	Pursuit Racing	Thailand	Amnuay Silpa School
 T35	Omega Racing	Greece	Ekpedeftiki Anagennisi
 T36	Falcon Force Wales	Wales	Ysgol Brynrefail
 T37	Atlas Racing	United States	Granbury High School
 T38	Pegasus Racing Team	Brazil	Four C Bilingual Academy
 T39	Academy Racing	United Kingdom	WMG Academy For Young Engineers
 T40	Neutrino-HiTech	Jordan	Al-Hassad Al-Tarbawi Schools
 T41	Innova Racing By Panteras	Mexico	Prepa Universidad Pan Americana
 T42	Aurora	Australia & Germany	Brighton Secondary School & Fichte-Gymnasium Hagen
 T43	NewGen Tachytis	Greece	Filothei Public High School & Erasmios Greek & German School
 T44	Alebrije	Mexico	Colegio de Educación Profesional Técnica del Estado de Puebla
 T45	E.nventor	China	Beijing National Day School
 T46	Unity Racing	Ireland	St. Muredach's College
 T47	Hyperdrive	Australia	Trinity Grammar School, Kew
 T48	NINE	England & Northern Ireland	Emmanuel College & Carrickfergus Grammar School
 T49	Finkas	Peru	Markham College
 T50	Miracle Engineers	Czech Republic	Vyšší Odborná Škola, Střední Průmyslová Škola a Střední Odborná Škola Remesel a Služeb, Strakonice
 T51	Dynamic Speed	Northern Ireland	Larne High School

OPENING CEREMONY



The event was formally opened by Dr. Mehander Singh, Director of Sports Division, Ministry of Education Malaysia.

Dr Mehander Singh praised the value of the F1 in Schools programme in education, saying, "As we move in a more global and competitive economy, STEM education has become increasingly important in helping students develop their critical thinking problem solving, creative solutions and collaborative skills. There is no doubt in my mind that programmes like F1 in Schools can play a major role in changing perceptions to ICT, Engineering, Sciences, Mathematics and Technology and that investing in STEM is to invest in the future. We believe that the implementation of the F1 in Schools curriculum in our local schools can help our students to think outside of the box and increase their interest in STEM learning".

The first day of this year's World Finals started with a 'flag-off' F1 in Schools race with Dr. Mehander Singh experiencing the pressure of racing, being pitted against Vicki Treadell, British High Commissioner.



RANDSTAD WILLIAMS ENGINEERING ACADEMY



Alongside this final day of activity the Randstad Williams Engineering Academy Assessment Centre was the destination for 25 applicants who successfully won through the first stage to aim for a place at the Academy. They were put under the spotlight for the final stage of the selection process with a distinguished panel of Williams Racing and Randstad personnel assessing the talented F1 in Schools World Finalists. Up to 10 students are awarded a place in the Randstad Williams Engineering Academy.

The Randstad Williams Engineering Academy is a remote e-learning programme with the successful candidates receiving support, training and guidance to underpin their Engineering education. The curriculum consists of e-learning based course materials that are completed via an e-learning portal, a yearly essay based project, and mentoring and tutoring from Engineers at Williams.



PRESSURE CHALLENGE

The Pressure Challenge is a task given to each team to complete within a specified time, with the details for this challenge only released at the start of the time limit, a real test of coping and working as a team for each of the world finalists.

This year Autodesk and Mercedes-AMG Petronas Motorsport challenged each team to come up with their very own, unique design on the issue of driver safety.



Knockout Competition



The final day of competition featured the popular Knockout Racing Competition.

The Knockout Racing always provides another nerve-wracking test, particularly for the team member selected to 'drive' the team's car, needing to have a quick reaction time as well as a fast car to beat the rest of the teams and take the win.



Awards Celebration Gala Dinner

Hosted by David Croft, Sky Sports F1 Commentator, the glittering Award Celebration Gala Dinner was attended by 650 people including the teams, teachers, Malaysian royalty, dignitaries and key Formula 1 paddock personnel.

The evening celebrated the achievements of the F1 in Schools World Finalists, with the future Engineers and professionals in the Formula 1 industry having worked tirelessly for three days in pursuit of the ultimate prize, to be crowned World Champion and win valuable University scholarships from City, University of London and UCL Engineering, London.



KNOCKOUT COMPETITION FINALE

The Knockout Racing, with the head to head battles pitting the German-Australian collaboration, Aurora and Germany's Pioneers to face each other in the final showdown race, held at the Awards Celebration Gala Dinner, with Germany's Pioneers claiming victory.



3

THIRD PLACE

PIONEERS
Gymnasium Kronshagen - Germany

Supported by
IET Education
The Institution of Engineering and Technology

2

SECOND PLACE

Supported by
SEPANG INTERNATIONAL CIRCUIT

AURORA
Brighton Secondary School & Fichte-Gymnasium Hagen - Australia & Germany

2ND & 3RD PLACE



WORLD CHAMPIONS

1

WORLD CHAMPIONS

Supported by



HYPERDRIVE

Trinity Grammar School, Kew - Australia



Hyperdrive collected the Williams Racing supported Best Engineered Car Award and were nominated for the McLaren Honda supported Research and Development Award on their way to the ultimate victory, with 16-year-old Team Manager, Hugh Bowman, saying, " We really didn't think we'd won, so it was a big shock. The buildup was intense, it was unbelievable and it hasn't really sunk in yet. But if you put your mind to it you can do it. We've always done everything to a really high standard and great engineering and I think that was the key to our success. It means everything to us to have won, we've worked so hard, but it's paid off."

He adds, "The goal is definitely F1 – the next Toto Wolff or Christian Horner for me. F1 in Schools has been so important to us, it's given us so many opportunities and contacts, and it's unbelievable. We really didn't expect to be going on the grid, it's just unheard of. I think the new F1 management has contributed to these opportunities and not only are they supporting F1 in Schools, they are making the sport better and engaging with fans like us more which is really good."



AWARD WINNERS

WILLIAMS RACING

Best Engineered Car Award
supported by Williams Racing

HYPERDRIVE

Trinity Grammar School, Kew - Australia



Scrutineering Award
supported by FIA

BWT - SWIFT

Htl Steyr And Vienna International School - Austria



Team Sponsorship & Marketing Award
supported by Haas F1 Team

ENVISITY

Mount View High School & Launceston College - Australia



Chair of Judges Recognition of Achievement Award
supported by Red Bull Racing Formula One Team

DESERT FORCE

Umm Al Arab School - United Arab Emirates



Fastest Car Award
supported by Mercedes-AMG Petronas Motorsport

ACADEMY RACING

1.084 seconds
WMG Academy For Young Engineers - United Kingdom



The Best International Collaboration Team Award
supported by Shell

AURORA

Brighton Secondary School & Fichte-Gymnasium
Hagen - Australia & Germany



Research and Development Award
supported by McLaren Honda

TIRO RACING

Kingston College - England



Innovative Thinking Award
supported by Renault Sport Formula One Team

SYNCHRO 9

Smk Seksyen 9 - Malaysia



Women in Motorsport Award
supported by FIA Women in Motorsport

GLOBAL SCORE

Aleseela Secondary School - Jordan



Best Newcomer Award
supported by Sauber F1 Team

DEHJO RACING

Amnuay Silpa School - Thailand



AWARD WINNERS



Pit Display Award



Pit Display Award
supported by Scuderia Toro Rosso

AURORA

Brighton Secondary School & Fichte-Gymnasium
Hagen - Australia & Germany



Verbal Presentation Award



Verbal Presentation Award
supported by Formula 1

VICTORUM RACING

St. Brigid's College - Ireland



Award



Enterprise Portfolio Award
supported by DHL

PIONEERS

Gymnasium Kronshagen - Germany



Award



Team Identity Award
supported by Scuderia Ferrari

NEWGEN TACHYTIS

Filothei Public High School & Erasmios Greek
& German School - Greece



Outstanding Sportsmanship Award



Outstanding Sportsmanship Award
supported by Sahara Force India Formula One Team

GOLDEN DIVERSITY

Queechy High School - Australia

AWARD WINNERS



Team Website Award



Team Website Award
supported by Fantastic Media

PURSUIT RACING

Amnuay Silpa School - Thailand



WORLD FINALS
KNOCKOUT COMPETITION WINNERS



Knockout Competition Winners
supported by Pirelli

PIONEERS

Gymnasium Kronshagen - Germany



Award



Social Media Award
supported by ID PR

NINE

Emmanuel College & Carrickfergus Grammar
School - England & Northern Ireland



SUTTON IMAGES
MOMENT OF THE WEEK AWARD



Sutton Images Moment of the Week Award
supported by Motorsport Network

TEAM CELER

Colégio Vértice - Brazil



PRESSURE CHALLENGE AWARD



Pressure Challenge Award
supported by Autodesk

PURSUIT RACING

Amnuay Silpa School - Thailand

RANDSTAD WILLIAMS ENGINEERING ACADEMY

CLASS OF 2017



Eight related students won places at the prestigious Randstad Williams Engineering Academy, after final assessments. Students from England, Australia, Ireland, Scotland and the USA, were announced by Rob Smedley, Head of Performance Engineering, Williams Racing, on stage at the awards, the third intake to the Academy that takes its students exclusively from F1 in Schools World Finals events each year.





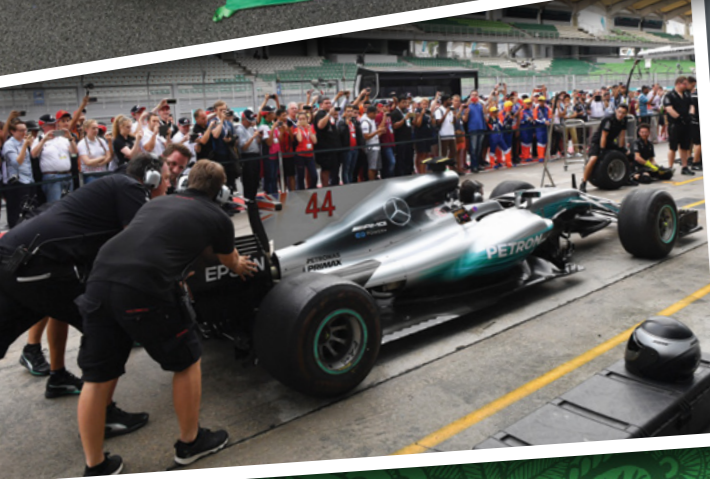
SEPANG INTERNATIONAL CIRCUIT VISIT & F1® PIT LANE WALK



After all their hard work the students were rewarded with a trip to Sepang International Circuit, they enjoyed an exclusive coach tour of the circuit, led by the official F1 safety car, stopping for a group photo in front of the famous Grandstand.

Following the circuit tour the teams were treated to an exclusive F1 in Schools pit lane walk courtesy of the circuit and Formula 1, giving the students an unforgettable experience of the real world of Formula 1.

The teams who won the F1 Team awards were hosted by the F1 Teams and given a behind the scenes tour of the team pit garage.



18th August 2017

Dear Andrew,

We are very proud that F1 in Schools continues to grow exponentially and that it is inspiring many thousands of young people into careers in science and technology.

Encouraging students into STEM related careers is crucially important not only to our sport but also to the countries and communities we visit. There are also the many other skills that F1 in Schools promotes and encourages such as teamwork, entrepreneurship, innovative thinking, business awareness, communication and marketing. With all of these attributes being developed across many countries and continents we feel that F1 in Schools represents the very best of what the sport and business of Formula 1 is about.

F1 in Schools continues to grow and so does our ambition for the programme.

Best regards,

Chase Carey
Chairman and CEO
Formula 1®





Andrew Denford, Founder and Chairman of F1 in Schools raced Chase Carey ahead of the Awards Celebration Gala Dinner, with the Formula 1 chief narrowly beating Andrew in the 'celebrity race'. Carey's first attendance at an F1 in Schools World Finals was testament to the value of the F1 in Schools programme to Formula 1. Carey said "My congratulations to all the teams, you guys are incredible, you just blew me away. The passion, the intelligence, the creativity, the maturity that you guys have, it's just incredible. If our future is in your hands, we've got a great future in this world. It's also tremendously exciting to see so many girls and all-girls teams in the competition, the teams from end to end, were fabulous. Speaking on behalf of Formula 1, we couldn't be prouder of Formula 1 in Schools, it is our official education initiative."

He continued, "Education is second to none in importance today in the world, because it really is our future. And it is particularly important that F1 in Schools' focus is STEM education as it is an area that is really lacking in so many places in the world and real estate technology and engineering are increasingly the forces that are going to drive the world's growth. For Formula 1 this is such a natural place for us to align, we're a unique sport which combines great sporting competition with state of the art technology and it is great opportunity for us to take the sport and bring it to people of your age in real-life application. My only wish is that you continue with the path you're taking and if you can build on all the things I have seen here today you will have an incredible future ahead of you and hopefully for our benefit that a number of you will end up on Formula 1 teams."



Winning Teams Visit The Formula 1® Paddock

The teams were all given the opportunity to attend the 2017 FORMULA 1 PETRONAS MALAYSIA GRAND PRIX courtesy of Sepang International Circuit, with Hyperdrive the World Champions also being given VIP treatment for race day.

Hyperdrive were the guests of Formula 1 with Paddock Club hospitality, Paddock passes and highly coveted Grid access for race day, a truly once in a lifetime experience.



#F1SWF f1inschools.com #RoadtoMalaysia

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