

FORMULA **STUDENT**



Learn to Win

Who's Who

**Neill Anderson – Overall Vehicle Concept and Design Reports
Technical Advisor**

**Commission for Taxi Regulation
(Whittle Room, 1st Floor)**

Chief Design Judge for last seven years. BSc Automotive Engineering Loughborough. Designed and built various TVR road and race cars. Joint winner of Design Council Award 1993 for TVR Griffith. Experienced motorsport competitor, British Sprint Leaders Champion 1995 and 1996. Currently working within public sector on vehicle regulations. Supporter of anything that gives students real world experience, FS is therefore a great event.

**Chris Baker – Scrutineering
(Whittle Room, 1st Floor)**

I am currently the Head of the Automotive Engineering section at Lowestoft College, my involvement with motorsport goes back 40+ years when I was preparing and competing in Autocross and Rally vehicles. My work with the governing body (MSA) started in 1981 and I have dealt with most forms of motorsport from production car trials to Formula One. I have been the Eligibility Scrutineer for a number of forms of racing including drag racing, saloon cars and single seaters. My current "charge" is Pickup Truck Racing (circuit and high speed oval) and Ma5da Racing (circuit).

I am a member of the MSA's Vehicle Safety Working Group that looks at the safety aspects of all forms of motorsport and formats legislation where necessary.

**John Beardmore – Driver Environment and Controls
Automotive Consultant**

**Beardmorebros
(Whittle Room, 1st Floor)**

Designed and built my own space framed car with very few facilities. This included: suspension geometry, steering, braking, engine tuning & building, spaceframe design and optimisation, electronics, carbon bodywork. In other words I did everything! Previous design judge team leader. Working in vehicle safety, I crash cars!

**Elliot Brinkworth – Presentation
Programme Manager**

**Ministry of Defence
(Napier Room, 4th Floor)**

Elliot was part of the 2000 Leeds University FS team. Since graduation he has worked for the Ministry of Defence procuring equipment, advising on the Department's project management policy and currently programme managing a business transformation exercise in the London Head Office.

**Andy Burston – Sustainability 1A
Director**

**Flux Dynamics Ltd
(Council Room, 2nd Floor)**

Andrew worked as a design engineer at Lola Cars for ten years, was involved in F1, Champ Car, Indy Lights, F3, LMP1&2, and was chief

designer on the F3000 and Grand Am DP projects. In 2004 Andrew took time out from motorsport to study for an MPhil in Engineering for Sustainable Development at Cambridge University. He has since set up his own consultancy business specialising in automotive and motorsport projects with a strong sustainability element. In addition to working with Formula Student Andrew is also a technical judge at Formula Hybrid in the US and lead the 1A sustainability event in the UK.

**Alan Caddy – Cost
Manager Cost Estimating
Ford Motor Company
(Napier Room, 4th Floor)**

I have worked in the Automotive Industry for 35 years in several different roles from Tool making/Manufacturing Engineer through to several roles in Finance.

**Owen Carless – Chassis and Suspension
Structures Analyst
Red Bull Technology
(Hinton Room, 1st Floor)**

I work within the Structures group of Red Bull Technology on the team's RB5 car. As a member of the group I am responsible for both finite-element and classical calculations on a wide range of vehicle components, including; suspension, gearbox, chassis, brakes, steering, and composite structures. In addition, the group are responsible for definition of laminate composition and material selection for both strength and rule conformance.

I am a keen motor sport enthusiast and have judged at FS for the past three years. I previously worked for Ricardo as a structural analyst and base engine mechanical development engineer.

**Darren Cashman – Cost
Cost Estimator
Ford Motor Company
(Napier Room, 4th Floor)**

Worked at Ford Motor Co for 20+ years areas include Manufacturing/Design & Development and Finance. I also studied at university whilst in full time employment and achieved a 2.1 (Hons) degree in Manufacturing Systems Engineering. I judged since the 2007 FS event and supported various pre meetings with the chief cost judge and have supported the Learn to Win events. I enjoy watching and follow almost all forms of motorsport

**Stuart Chamberlin– Driver Environment and Controls
Principal Support Engineer
Cosworth Electronics
(Council Room, 2nd Floor)**

I am Principal Support Engineer at Cosworth Electronics (previously called Pi Research). Cosworth Electronics develops control and logging hardware and software; my role involves providing technical support to customers, developing improved usage of products as well as influencing future hardware and software development, With the UK office servicing

European and Far Eastern customers, this covers a wide range of vehicles and series; recent projects I have been involved in include LMP and Formula Nippon

**Ralph Clough – Class 1A
Principal Engineer
McLaren Automotive
(Council Room, 2nd Floor)**

In my present work I have responsibility for the concept and detail design of the electric hybrid system for a supercar and project management of a mule car build program, I have also spent some years in the design of internal combustion engines (F1 and road). I set up, and was technical director of, the Racing Green project at Imperial College, to design and race fuel cell race cars, successfully competing in the Formula Zero championship in 2008 with a fuel cell/supercap go-kart. I have attended F Student for the last two years.

**Jez Coates – Overall vehicle concept
Managing Director
Coates Automotive Development
(Whittle Room, 4th Floor)**

Technical Director at Caterham Cars from 23 years prior to setting up my own consultancy in niche vehicle engineering. Have been a Design Judge Team Leader for the last 5 years at Formula Student. Currently building my ultimate Caterham Seven in my spare time.

**Sam Collins
RaceCar Engineering (Napier Room, 4th Floor)**

Sam grew up in South London within sight of the long abandoned Crystal Palace Race Circuit, yet found himself on work experience in the loom shop at Williams F1 aged 16. He has been heavily involved in the sport ever since, having gained a National Diploma in Motorsport Engineering from East Surrey College (where he also built and raced a Group N Ford Fiesta) and Studied Automotive Engineering at Oxford Brookes University. Collins has written for Motorsport News, Autosport, Model Collector, Speed TV, 750 Bulletin and a number of others. He has also written a number of books including Autodrome, and Unraced. He is also the Editor of Stockcar Engineering magazine.

As a driver Collins has competed in stock car racing, Formula Vee, stage and road rallying as well as many local events. Currently he is running a Super Late Model in the European Late Model Series. He also works as Press Officer for Apex Circuit designs and owns a small PR agency

**Adam Covell - Dynamic Events
Research Engineer
Caterpillar
(Whittle Room, 1st Floor)**

Research Engineer at Caterpillar UK, working primarily on simulation tool development for engine and vehicle system simulation. Cardiff FS team member 03/04 - engine development, electrical systems and driver. Event Captain at all subsequent FS events. Responsible for planning and running of the Sprint and Endurance Dynamic Events.

**Richard Folkson – Project Management & Team Building
Consultant**

**Richard Folkson Automotive
(Napier Room, 4th Floor)**

Thirty years experience at Ford Motor Company in all areas of Engineering including Project Manager of first Ford Focus and previous model Ford Transit from 1994-1999. Most recently Chief Engineer with responsibility for standards at Ford, Jaguar, Land Rover, Mazda and Volvo. Chairman of the IMechE Automobile Division and visiting professor at the university of Hertfordshire Automotive Engineering Department. Restoration and competition in classic Ferraris since 1984. Recently taken over as Chief Judge at Formula Student.

**Alex Hickson – Materials and Processes
Composite Development Engineer
(Hinton Room, 1st Floor)**

Alex has a depth and breadth of experience in design, R&D and manufacture of composite components and assemblies from racecar's and 40m wind turbines to space applications. A former Technical Director of the University of Birmingham Race Team in 1999, Alex lead the team to compete in the US & UK. Working in Technical Operations at Lockheed Martin UK INSYS Alex now delivers key technical support as a Development Engineer and Certified Lean Six Sigma Greenbelt to Composites Manufacturing and Project Teams.

**Phil Ingram – Vehicle Dynamics and Testing
Vehicle Dynamics Engineer
Red Bull Technology
(Council Room, 2nd Floor)**

I am a vehicle dynamics engineer, responsible for performance development in both ride and handling domains on the F1 car. Prior to Red Bull, I worked at MIRA within their vehicle dynamics department. I have previous FS competition experience with Leeds University from 2001 to 2005 and I'm a keen kart racer in my spare time

**Helen Jackson – Testing
Attribute Leader Off Road Capability
Jaguar Cars Ltd
(Council Room, 2nd Floor)**

My interest in motorsport began at Leeds with the FSAE/Student project. Since then I successfully completed the MSc in Motorsport Engineering and Management at Cranfield including a thesis project on tyres for Team West-Tec. I won two championships with them in the SCSA series, and am now working with them as a data engineer in Spanish F3. My day job is working as the Off-Road Attribute engineer for Jaguar Land Rover with responsibility for a future vehicle programme. I'm also the Chairman for the Coventry Automobile Young Members Panel of the IMechE and the Midlands Representative on the Young Members Board.

**Stephen Johnson – Engines
Development Engineer
Mercedes Benz High Performance Engine
(Hinton Room, 1st Floor)**

A previous competitor in FS2000 with University of Hertfordshire, I completed my degree and joined Cosworth's Graduate Training scheme. I spent 6 years with Cosworth working on various areas of the Formula 1 project. Roles I have fulfilled have varied from Track support (Calibration Engineer), to a factory based Performance Development Engineer. At the end of 2006 I moved to Mercedes Benz HPE, who supply engines to McLaren F1, again working as a Development Engineer. Outside work I try to do a bit of karting, and play some badminton (badly!).

**Dan Jones – Structural Equivalency forms (SEFs)
Design Engineers
Flybrid systems LLP
(Whittle Room, 1st Floor)**

Competed in FS in 2006 Class 1 Uni. of Herts as team manager, suspension/chassis designer and driver finishing 5th overall. After University I initially worked for Bentley as a suspension design engineer, I moved to Flybrid Systems in June 07 where I work as a design engineer on our flywheel hybrid system.

**Graham Jones
RaceCar Engineering**

Graham was involved in setting up the London-based Global Sponsorships Information Centre in 1997, to coordinate PR and communications activities related to all of British American Tobacco's European motorsport sponsorship programmes. At various times, these included the Suzuki Grand Prix Team in the World Motorcycle Championship, the John Player Gold Leaf F1 Powerboat Team, plus the Tyrrell and British American Racing Formula One teams.

In early 2001, he was asked by former Tyrrell sponsor, Paul Stoddart, to take on the role of communications manager for the Minardi Formula One team, which the Australian entrepreneur had recently acquired. Graham accepted, and spent the next seven years working with Stoddart on a number of motorsport ventures, which in addition to the Formula One team, included the European Minardi F3000 Team, Minardi F1x2 Team, and most recently, Minardi Team USA in the Champ Car World Series. Describing himself as "a frustrated engineer", Graham has competed at various times in International Conference of Sports Car Clubs and Firestone Firehawk events in North America, as well as in Triumph Sports Six Club races in the UK. In a move that appears to display a certain degree of symmetry, he now returns to the world of journalism, as editor of Racecar Engineering, which coincidentally, incorporates the Cars and Car Conversions title.

**Ian Murphy – Class 1A
Principal Engineer
Flybrid Systems LLP
(Council Room, 2nd Floor)**

Ian is Principal Engineer for Flybrid Systems, a company developing flywheel based energy recovery systems for both racing and road cars. Previously he worked in Formula 1, initially with Arrows and more recently with Williams F1 where he was responsible for the technical operation of an F1 car at track tests and vehicle dynamics simulation and analysis at the factory. He has supported Formula Student since 2001 as a Design Judge and has presented on Test and Development at the Learn to Win events.

**Craig Powers - Presentation
Control Engineer
GCOpt
(Napier Room, 4th Floor)**

I am chartered control engineer within the power generation industry, with electrical / mechanical qualifications. I run an 1100cc bike engined single seat hillclimb / sprint car as a hobby, doing all the work myself so have practical experience of modifying, maintaining and competing such cars. I have been involved with FS UK since 2003, and FS Germany in 2006 and am now Head Presentation judge in the UK.

**Gerard Sauer – Practical Design Aspects
CEO
GS technology
(Council Room, 2nd Floor)**

Studied automotive engineering in Holland and Germany specialising in internal combustion engineering. Came to the UK and started ADA Engineering in 1971, later in 1979 started Automotive Consultants and became involved in the late 80's in the electric drive and hybrid drive systems and fuel cell integration business. Now CEO of AFC Energy plc a low cost fuel cell manufacturer in West Sussex nr Guildford. Career highlights: won 5 National championships whilst running ADA engineering in Saloons, Sportscars, and Monoposto, engineering and preparing the cars. Won 2 National Championships one with Ford in GRP N and one with Mercedes Benz, the first National Championship Daimler Benz had won since 1957. Designing and building the very first Low Carbon bus in Europe. Designing and building 5 Fuel cell powered vehicles. Lead a design team at FSUK2009 and was part of the design final judging team.

**Grant Tuff – Application of Engineering Science
Vehicle Dynamics Engineer
Williams F1
(Hinton Room, 1st Floor)**

I am a Chartered Mechanical Engineer (IMechE). I have worked in the motorsports industry since graduation in 1989. Initially I worked as a design and development engineer at Reynard Racing Cars. I subsequently spent 7 years as a data analyst / race engineer with Williams F1. During this time I attended more than 100 consecutive Formula 1 races. Since

2002 I have been employed as a vehicle dynamics engineer with Williams F1.

**Steve Wallis – Chassis
Design Engineer
Triumph Designs
(Hinton Room, 1st Floor)**

I competed in Formula Student 2003 and 2004 with the Imperial College team. Since then I have worked on chassis design and testing of Triumph Motorcycles including the Daytona 675, Street Triple, Rocket 3 and the new Thunderbird.

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