

UP RACING

NEWSLETTER October 2018



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[Facebook.com/UPRacingTeam](https://www.facebook.com/UPRacingTeam)



upracing.fs@gmail.com



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Welcome

A very warm welcome from everyone at UPRacing, to all our loyal sponsors, alumni and supporters. The team has begun its epic journey to the UPR-11 car this year. With the new team assembled and ready to build on the efforts of last year there is definitely a feeling of excitement and anticipation. Here's a review of the team's fresh start to the year and our plans for the near future.

Welcome... but also Goodbye

So far the 2018/19 academic year has thrown several challenges at the UPRacing Combustion team already. Firstly, we had the announcement of the term date amendments – pushing back our critical manufacturing period, followed by news of financial cuts and to top it all off, the retirement of our beloved Mr David Wiltshire, Faculty Advisor, businessman, and generally the most invested, caring academic contact arguable at any University at FSUK.

David committed nearly 10 years of his time as a University of Portsmouth Lecturer with the keen interests of the team at heart. A team that has successfully grown from as little as 10 students to now over 60 multi-disciplinary members who contribute in a wide array of expertise to achieve the UPR-of-the-year.

The critical role that David filled bridged the gap between an extra-curricular, steep student learning curve in a world-renowned motorsport project, and all of the academic aspects that come with being a university project. Everything from purchasing to sponsorship and logistics to people management, David provided a no-nonsense approach to get the objective completed – an attitude to life's tasks that can only be adopted with experience and wisdom.

One of David's notable milestones was to oversee the introduction of our sister team, UPRacing Electric, headed up by ex-IC-member Mr Ollie Plucknett. With this, both teams came together alongside alumni to celebrate David's time with a formal(ish) dinner event and the presentation of a home-made 3D-Print Trophy of both IC and EV renders side by side atop a fully printed base!

We take this opportunity to once again give our sincere thanks, it would be universally agreed that the achievements made would have not been without the support of David – we wish you all the best in your retirement.

With this, we welcome the recent appointment of Dr Jason Knight, Lecturer in the School of Mechanical and Design Engineering, into the role. We have no doubt that UPRacing will hugely benefit from the extensive engineering knowledge and fresh take that Jason brings with him.

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Mr David Wiltshire



The 'Main Driver' in FSP-04, at FS Spain 2012.



David receiving his trophy at his celebration dinner.

Recruitment

The recruitment process began with members returning to Portsmouth in September. The team was represented by our new team lead Liam, who talked to various engineering courses and years inviting prospective members to attend our recruitment event. We also took the opportunity to roll the car out of the lab during the day to catch passers-by who may have been interested in joining but were not studying an engineering-based degree. Our promotion campaign was clearly a success, for when the recruitment event came, attendance was very high, with returning members constantly busy explaining all aspects of the team. At the event we were able to take students details, to allow us to send out application forms for them to fill in. In total, 81 forms were sent out and 69 filled in and received.

Following the completion of application forms, select students were invited to an interview with section heads to outline their department and the type of roles associated, with the opportunity for candidates to ask any questions they had. This process worked well, with each department filling their required



Recruitment Event.

First Team Meeting

On Monday 15th October the team held the first team meeting. Presentations were given from members of management outlining the function of their departments and what the aims are for the year ahead. Our new faculty representative Jason Knight was also in attendance and gave a short speech introducing himself and expressing his enthusiasm and support for the project. Shortly after the meeting we re-located to the Union where we were able to continue introductions between members old and new in a more informal setting. It was great to witness lots of questions being asked from everyone, with a cold drink in hand amid plenty of laughter.

Scavenger Hunt Team Build

The following Wednesday, the team took part in the first team build social of the year – the scavenger hunt. This event was also run last year and proved to be a great success, hence it's return this year. Team members worked together very effectively to travel around Portsmouth, collecting points in teams by visiting various land marks. Definitely a fantastic way to build relations within the team.



UPRacing at the finish of the Scavenger Hunt, outside Guildhall.

CAD Tutorials

The first CAD tutorials of the year were held on Wednesday 24th October. Each member was asked to draw up detailed parts, with the advice and support of our design leads. This gave new members the opportunity to learn the basics based around our design software and processes such as Solid Modelling. The event ran smoothly, and it was great to see everyone learning some new skills, and/or building on past experience. Several more of these sessions are scheduled for the coming weeks.



New Design members hard at work.

Team News

Design



"Over the past few weeks the design team has been working hard to establish our goals for this year and determining where our focus should be. We have decided that our main aims should be to improve the reliability and driveability of the car so that we can go to the competition with confidence that we can complete all the dynamics events, maximising our points, as opposed to attempting any drastic improvement in the cars performance."

We have also been welcoming new members of the team into the design section, getting them up to speed with the direction the car will be taking this year, as well as introducing them to the parts of the car they will be working on. We successfully ran our first Computer Aided Design (CAD) tutorial session to start teaching the new members the basics of CAD, a vital tool for the design of the car. These will be continuing up until Christmas, moving on from the basics to more specific support sessions for team members to work on their designs.

Over the next few weeks initial models will start to be completed ready for a design review, with weekly design meetings being held so that feedback is constantly given amongst the team and to keep good levels of communication between the team members."

Ben Spurge – Design Lead

Maintenance and Manufacture



"Over the summer we have received our hubs and uprights from Pall, we also received our new carbon ceramic brake disks from Bremtec Brakes, so thanks to both companies for their support and sponsorship."

We have also been doing some investigation into a problem that was picked during post-Silverstone testing. The MM team is working hard on the engine rebuild ready for some long overdue testing at Thorney Island. Once the engine has been rebuilt we can test some of the new features on the car such as; launch & traction control.

After a long recruitment drive, we have got our final Maintenance and Manufacture team with 8 new members, who are all keen to learn and are ready for a hard years work, we also have 4 returning members including myself, and I am pleased to announce that; Lewis Sharpe will be taking the role of Maintenance and Manufacture vice and, Rob Sweetman will be taking on the role of head of composites this year.

Hannah Hume – Maintenance and Manufacture Lead

Operations



"Having recently completed our recruitment process, the Operations Department has grown from last year. We have recruited 8 new members, with 13 members in total. Many of these new members specifically requested Operations over other departments, contrasting to last year. With this in mind, I believe we will be more motivated and push the business side of the team further than ever before.

We are aiming for a greater social media presence this year, utilising a variety of platforms instead of solely relying on our Facebook page. Newsletters will also be a more regular fixture along with an updated website linking all of these elements together.

Promotion and eventing are also a priority with the aim of exhibiting, visiting and hosting events throughout the year. Shortly before this newsletter is released, myself and several members will be attending the Advanced Engineering Show at the NEC in Birmingham. We hope to meet many engineering related companies and promote the team.

Furthermore, both the 'Business Logic Case' and 'Cost Report' are areas we are keen to improve on over last year. Lessons learned should put us in a good position for the coming season. All in all, personally I am very excited for this year and look forward to seeing Operations develop."

Gareth Honour – Operations Lead

A message to our Sponsors and Supporters

Without your continued support none of this would be possible. Your products, services and assistance really do make this car a success, something we are eternally grateful for. The fact we are now an established team of 10 years is a fantastic achievement and definitely something to be proud of. We'll be racing towards the next 10 years, hopefully with many of you alongside us. Let's keep going forward!

