

IPCG Newsletter

Dear members,

At the last IPCG committee it was agreed that we need to provide better clarity about the group's activities and how being part of the group benefits you the members. Therefore, we will now be issuing annual summer newsletters to review the highlights of the last year and scheduled activities for the next twelve months.

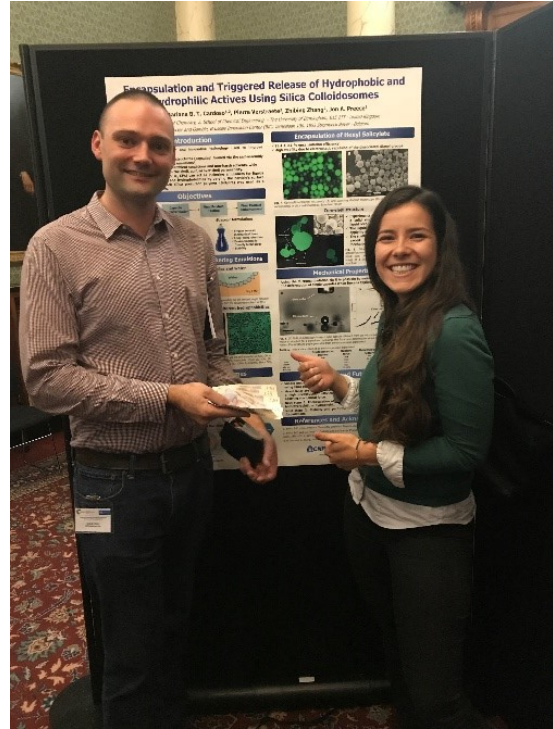
## 2017-2018

2017 was a very productive year with several successful events promoted and organised. The following were highlights:

### **November 23<sup>rd</sup> 2017 - Commercialisation of Pickering Emulsions Workshop**

The IPCG co-organised the "Commercialisation of Pickering Emulsions Workshop" with the Joint Colloid group at Burlington House, London. At the event Pioneers of the field Professor Steve Armes (University of Sheffield), Professor Bernie Binks (University of Hull) and Professor Stefan Bon (University of Warwick) were invited from academia to provide insight in to the theory, control and emulsification polymerisation applications of Pickering emulsions. Noted industrialists; Dr. Albert Poortinga (BETHEr ENCAPSULATES), Dr. Phil Taylor (SYNGENTA) and Dr. Konrad Roschmann (BASF) were invited to give examples of Pickering technologies already commercialised as well as sharing experiences of overcoming challenges.

The event was a great success with; 66 registered delegates (22 Academic delegates, 41 Industrial delegates, 1 retired delegate); 4 Exhibitors; 3 industrial sponsorships from BASF, BYK and Malvern; and a £5232 surplus to be split between Industrial Physical Chemistry Group and Joint Colloids Committee. The surplus funds will be reinvested in to future events organised by the IPCG. A goal of the IPCG is to host such co-operative industry focussed workshops on a regular (annual or biannual) basis. SO if you as a member have a topic important to you let us know and you may end up with a workshop tailored perfectly for you.



*LEFT: A captivated audience follows the presentation from Prof. Stefan Bon (University of Warwick) in the library at Burlington house where the workshop was held.*

*RIGHT: Prize winner Ms. Mariana Cardoso (University of Birmingham) receiving her £100 prize from Dr. Oscar Kelly (BYK, IPCG) for her poster; “Encapsulation and Triggered Release of Hydrophobic and Hydrophilic Actives Using Silica Colloidosomes”*

## **December 8<sup>th</sup> 2017 - Innovations in Encapsulation 17**

Innovations in Encapsulation 17 was held at Burlington house, London and was; “designed to build upon the success of the previous conferences by exploring innovations within the general field of encapsulated materials. Areas to be considered will include novel routes to their manufacture, the properties that such products exhibit, whether the shell protects the contents or provides controlled release or indeed the characterization of such materials. The applications areas can be anything from pharmaceuticals, cosmetics, agrochemicals and veterinary to smart materials such as inks, coatings and adhesives.”

The meeting was opened by Dr Simon Gibbon, chairman of the FSTG, who outlined the importance of formulation science in a range of industrial applications and processes. The programme of the meeting allowed highly successful networking among delegates and the presentation of many high quality posters in a special session.

The IPCG had provided financial sponsorship to the meeting and this supported the award of the Best Poster Prize. This was presented by John Ramsay on behalf of the IPCG to Natalia Porfirieva for the poster entitled: Polyelectrolyte complexes of PEGylated Eudragits as nanocontainers for drug

delivery, a joint paper from groups at the Dept of Pharmacy,. Kazan State Medical Univ. Russia and the School of Pharmacy, Univ of Reading.

<http://www.rsc.org/events/detail/26400/innovations-in-encapsulation-17>

## 2018 and beyond

As a committee we have committed to promoting/organising/attending the following events:

### **January 17<sup>th</sup>-18<sup>th</sup> 2018 - Formulation Forum Launch Event (SCI)**

This was the first in a series of annual events where; “participants will learn about formulation science related activities (UK & wider) both currently running and planned. This event will also provide an unparalleled opportunity to meet, build partnerships and network with other members of the community. There will be opportunities to openly raise, identify and discuss opportunities and current challenges in workshops, and to propose paths forward to realise the opportunities and address the challenges.”

Dr John Ramsey represented the IPCG at the forum. This meeting was attended by a range of people, including government, industry and academia. Brexit was a prominent topic, specifically the need to coordinate R&D in the UK. The IPCG is committed to supporting and promoting future forums.

### **June 10-15<sup>th</sup> 2018 – 10<sup>th</sup> SPEC Conference, Glasgow**

The RSC IPCG sponsored the SPEC 2018, an international conference series bringing together clinicians and scientists who are developing and improving recent advances in the biological sciences and medicine. Vibrational spectroscopy has a unique capability to provide this information and could play a significant role in histopathology, cytology, surgery, treatment monitoring and therapeutic development. This was the 10th in the series and the SPEC 2018 programme provided a comprehensive examination of the innovative pre-clinical and clinical applications of vibrational spectroscopy that can lead to health care delivery improvements, as well as insight into how delegates can, in turn, develop and improve the future for our industry.

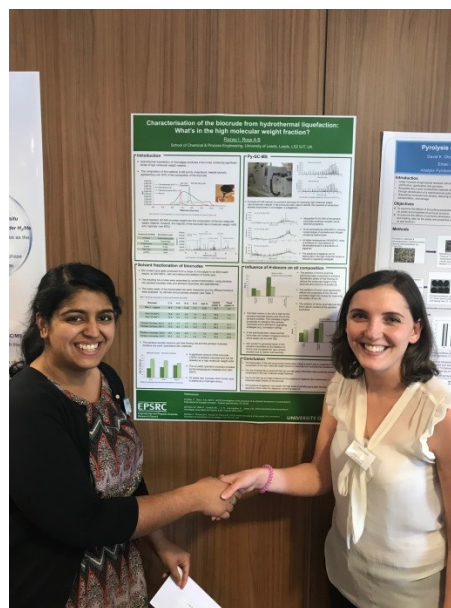
### **June 28<sup>th</sup> 2018 - Analytix Pyrolysis Seminar**

The RSC IPCG sponsored the Analytix Pyrolysis seminar, which was an interactive one-day event that covered the theory and applications of various pyrolysis techniques in analytical chemistry. The event was attended by academics and industrialists from a variety of backgrounds including pharmaceuticals, environmental and material science. The contribution from the RSC was used to

sponsor poster prizes, to encourage early-stage researchers to share their work and experiences relating to pyrolysis. The event took place on 28th June 2018 at the Quality Hotel in Boldon.



*LEFT: Joe Perkins-Hall (Intertek) receives first prize in the poster competition for his poster titled "Analysis of Novel 'Biodegradable' Plastics via Pyrolysis Gas Chromatography Mass Spectrometry"*



*RIGHT: Iram Razaq (University of Leeds) is presented with second prize for her poster titled "Characterisation of the biocrude from hydrothermal liquefaction: What's in the high molecular weight fraction?"*

### **Date TBC (likely Q3 2018) – Widnes Catalyst Museum Industry Day**

The IPCG will be sponsoring an industry day at Widnes catalyst museum. The event invites students to come for a day of interactive presentations from representatives of local chemical industries. It's an opportunity to inspire teenagers in the North West about careers in science based industries. The IPCG sponsorship will pay for transport and entry to the event for local schools. Additionally the event will be attended by representatives from the IPCG committee who will share their experiences of the RSC and their own careers in science. This is a repeat of a successful 2016 event which was attended by 80 year 8-9 pupils from three schools; Cannon Slade (Bolton), Marple Hall (Stockport) and Ormiston Chadwich Academy (Widnes).

Dr. Ashleigh Lyons who attended the event on behalf of the IPCG said; "The Chemistry Week event at the Catalyst Science Discovery Centre in Widnes was a great opportunity to engage with the young public about the work that the RSC and its members do. Passing our passion on to tomorrow's scientists, and inspiring them, really brings what we do into perspective. It was our chance to say "Look at what we're doing, look at how it influences the world around us, and look at how YOU can be involved, too!"

## **Date TBC (likely Q1 2019) – Aerosols in the Environment**

Currently proposed as our next one day workshop is a meeting to discuss the environmental impact of aerosols. From solid particles to liquid droplets the aerosols are ever present in the environment, both naturally and as an industry by product. Aerosols present unique challenges in analysing, modelling and processing. The IPCG will look to bring experts from academia and industry together in collaboration with the Aerosol Society to discuss this fascinating area. The event will be held at the RSC headquarters (Burlington House, London). If you as members want to get involved in the event please let us know.

## **AOB**

The IPCG committee is now looking to recruit new committee members. The only limitations to applying to be a committee member are RSC membership and to be able to spare at least 3 days a year to attend the committee meetings and help organise events. We would like new general members but we are also looking to fill the following posts:

Committee Vice-Chair – Responsibilities would be to cover our current chair at meetings when fortune dictates he cannot make it and to actively engage with the RSC organisation to support IPCG commitments.

STEM Ambassador – Someone to offer their time and enthusiasm to help bring STEM (science, technology, engineering and maths) subjects to life and demonstrate the value of them in life and careers. The person would be expected to take a lead in the organising of the out-reach events and projects with schools and local centres; including the agreed Industry Day at Widnes catalyst museum.

For any information about these positions, or anything else you have read about herein, please email us at the IPCG committee on:

[oscar.kelly@altana.com](mailto:oscar.kelly@altana.com)

Thank you for your attention. We look forward to your continued support.

Kind regards,

The IPCG committee.