

Chemistry Update

Newsletter 282, 24th February 2017

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Calendar of Events

CHyM Research Seminar

Speaker: Prof Alexej Jerschow, NYU
Date: Tuesday 28 February
Time: 1pm—2pm
Location: A140

Research Seminar

Speaker: Dr Tim Easun, Cardiff University
Date: Wednesday 1 March
Time: 1pm—2pm
Location: B101

IOP Anion Symposium

Date: Wednesday 8 March
Time: 1pm—5pm
Location: A101

RSC Prize Lecture

Speaker: Prof Charlotte Williams, University of Oxford
Date: Wednesday 15 March
Time: 1pm—3.30pm
Location: A101

Emerging Areas of

Photochemistry:

From Fundamentals to Applications

Date: 16—17 March
Location: Department of Chemistry

Solvents Day 2017

Date: Tuesday 21 March
Time: 9.30pm—5pm
Location: GCCE, F Block

Research Seminar

Speaker: Dr AnnMarie O'Donoghue, Durham University
Date: Wednesday 22 March
Time: 1pm—2pm
Location: B101

Salters' Festival of Chemistry

Date: Thursday 23 March
Time: 9.30am—4pm

Glycoscience Interview Presentations

Date: Thursday 23 March
Time: AM
Details TBC

Graduate Research Seminars

Date: Thursday 23 March
Time: 1pm—3pm
Location: A101

Independent Fellowship Day

Date: Friday 24 March
Time: 10am—6pm

Johnson Matthey Poster Competition and Seminar

Date: Tuesday 28 March
Time: TBC
Location: B101 / A101

Research Seminar

Speaker: Dr Paul Elliott, University of Huddersfield
Date: Wednesday 29 March
Time: 1pm—2pm
Location: B101

Date of Next Issue:

31st March 2017

Landmark Free Online Course, eeDc, Demystifies Everyday Organic Chemistry

Exploring Everyday Chemistry (eeDc), a pioneer University of York MOOC, delivered by the FutureLearn platform, attracted learners from over 100 countries.

WEEK 1 (Distilling my flower scented oils)

Type of flower: ROSE	Initial Volume of Flower Oil (100 ml)	Initial Volume of Olive Oil (100 ml)	Initial scent of Flower Oil (strong, slightly sweet, floral)
1 in 2	10	10	Slightly sweet, floral
1 in 4	5	5	Floral
1 in 6	3	3	Fresh, green grass
1 in 8	2	2	Fresh, slightly fruity
1 in 10	1	1	Fresh, fruity

Type of flower: CARROT	Initial Volume of Flower Oil (100 ml)	Initial Volume of Olive Oil (100 ml)	Initial scent of Flower Oil (floral, spicy)
1 in 2	10	10	Floral, spicy
1 in 4	5	5	Slightly spicy, floral, green leaves
1 in 6	3	3	Fresh cut grass, slightly fruity

LIMONENE

CC1=CCC(CC1)C(=C)C

LIKE THAT CITRUS SMELL? THIS WILL MAKE YOU YELL! THIS IS THE FRAGRANCE YOU NEED

Cinnamaldehyde

O=CC1=CC=CC=C1

It can be extracted from cinnamon bark but can also be synthesized in the lab. It's used as a flavoring in food and a fragrant for perfumes and household products. It's also an antioxidant and has antimicrobial properties!

CITRONELLOL
the sweet smell of roses

CC(C)C1=CC=CC=C1C=C

With a flowery smell of CITRUS, and a fresh smell of CITRUS

More than 5000 learners from well over 100 countries signed up for a first ever University of York MOOC, called *Exploring Everyday Chemistry*. The course started on 23 January and comprised four weeks of learning with 85 individual learning steps, including more than 30 videos and screencasts. It highlighted a range of **chemistry-based topics relating to our everyday lives** – from perfumes to antibiotics, brewing and sport, with an emphasis on the important role of organic chemistry. Aspects of recent research from the Department of Chemistry were included, together with examples of our undergraduate teaching materials.

Activities included experimenting 'in the kitchen' with hands-on projects ranging from extracting a plant fragrance, to testing the activity of spices against microbes – learners could share their results using tools such as Padlet and Twitter (@eedcAndy, #FLchemistry).



The course was designed to be of particular use to sixth-formers interested in developing independent learning skills to help the transition to university – marketing of the course to over 100 schools and colleges was supported by the University's Widening Participation team with a range of publicity created for feeder schools and colleges.

Indeed, this admissions season, a number of our UCAS applicants have mentioned MOOC's, including *Exploring Everyday Chemistry*, in their personal statements.

Learner feedback was extremely positive, including on the choice of topics, the presentation style and learning resources.

The course development was led by Professor Andy Parsons, assisted by undergraduate chemistry students Katie Martinelli and James Titterington, who helped select and compile course content, trial experiments and facilitate the running of the course (the course attracted over 2500 postings).



Ian Barr, from the [Centre for Lifelong Learning](#), who is coordinating MOOC activity at the University of York, wrote "Feedback from FutureLearn has been highly complimentary – the course has been deemed to be '**excellent**' following Quality Assurance, and the trailer created to promote the course has been used as an **exemplar** by FutureLearn when meeting potential new European partners in how to create engaging content."



*It's been a genuine pleasure to work with Andy, and the team and share in their enthusiasm for both chemistry and delivering a **first-class learner experience.**"*

Following the success of the first run, a slightly revised version of the course will start on **3 July 2017**. For details of the course content you might like to see our [promotional video](#).

A Date for Your Diaries

Ben Feringa: Public Lecture



On the evening of 6 September, the 2016 chemistry Nobel laurate, Ben Feringa will be giving a public lecture at the University of York. Ben is well known for his work on nano-machines and is also a strong supporter of outreach activities and public engagement. More details of time, location and topic will be provided closer to the date.

**BABY
GIRL**

Lillian May Pamela Leng-Helliwell was born at 2.46am on 8 February weighing 8lb 3.5oz. Abi and Phil are totally in love with their gorgeous baby, both mum and baby are doing well.

York Alumnus Performs in Pelléas Ensemble

On Wednesday 25 January 2017, the Pelléas Ensemble played at the University of York, featuring Chemistry alumnus, Oliver Wass, playing the harp.



The performance took place at the Sir Jack Lyons Concert Hall. The Pelléas Ensemble brought a sense of intimacy to their performance, making each member of the audience feel as if they were playing just for them.

Completing the trio were Luba Tunnicliffe on the viola and Henry Roberts playing the flute. The programme included Sonatine by Ravel and Britten's poignant Lachrymae, Bach and a jazz-influenced work by Misha Mullov-Abbado.



Oliver graduated with a First Class Honours degree in chemistry. He is currently in his second year of a Masters Degree at the Guildhall School of Music and Drama, where Luba and Henry both studied. Oliver was awarded a full scholarship to study with Imogen Barford.

The Pelléas Ensemble was formed at the Guildhall School of Music and Drama in 2011.

Restart a Heart – CPR & AED Awareness Sessions

Do you know what to do if someone suffers from a cardiac arrest? Ever wanted to know about CPR and AEDs (defibrillators)?

On 11 January 2017, David Pugh and Adrian Whitwood led two awareness sessions for staff and postgraduates on cardio-pulmonary resuscitation (CPR) and use of an automated external defibrillator (AED). They gave a bit of background followed by a demonstration of both resuscitation and use of the AED. Afterwards the participants were able to practise CPR using resuscitation dummies and gain experience using the training AEDs

Over 30,000 cardiac arrests occur in the UK annually. For those victims who receive CPR and are shocked with an AED within 2 minutes, around 40% survive to discharge... waiting the 8 minutes for an ambulance to arrive reduces this to under 5%.

David and Adrian plan to run another session so keep an eye out in the *Chemistry Weekly Digest* if you are interested.



Luisa Ciano and Daniel Raines practicing with the resuscitation dummy and trainer AED.

Beware: Theorist in the Lab!

“Hello from the neutron beam source, ISIS, at the Rutherford Appleton Laboratory. We (Shimizu Group and TWI Ltd, Cambridge) were granted 7 days of beam-time in October 2016 to investigate the structures of protic ionic liquids. A desperate shortage of hands forced a theoretician to take up his syringe for the first time since 1990, when the compulsory chemistry labs for the freshers at the University of Tokyo dissuaded him from majoring chemistry.¹

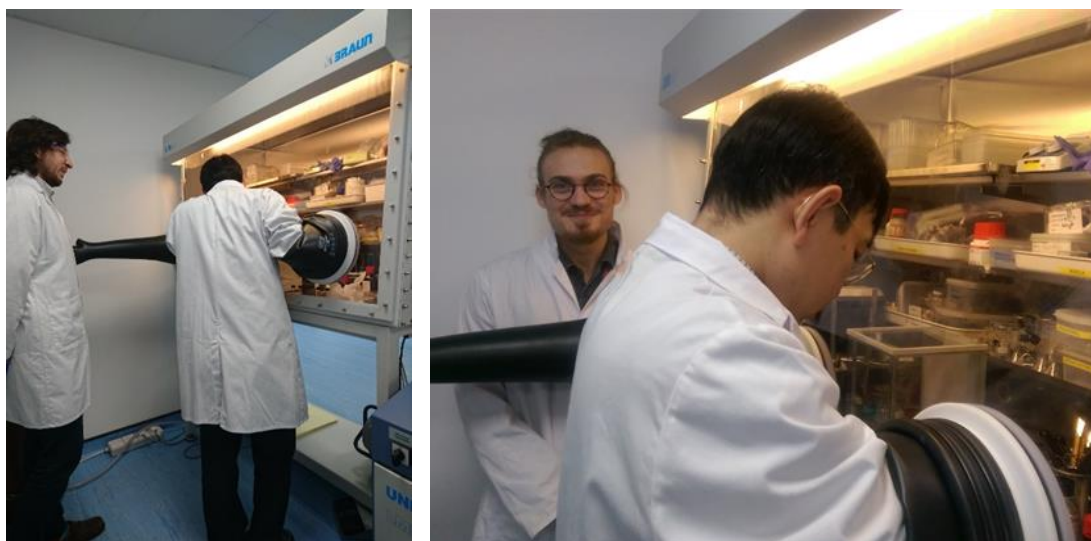


“This caused a role reversal between my PhD student (Josh Reid, centre) and his supervisor. In February 2017, RAL granted us three extra days, and my other PhD student, Tom Nicol (right), joined in to help us out.”

“I have made an ionic liquid!”



“To ensure rigorously that the correct procedure be followed, Josh and Tom were looking over my shoulder to supervise their supervisor!”



“All our samples had to be mounted one by one onto the detectors (SANDALS, left, in October; NIMROD, right, in February).”



“After an honest day’s work, I slept like a real chemist, while the beam was running all night long.²”



- Dr Seishi Shimizu

Notes

1. In addition, his brief stint as an experimental physicist ended in early 1996.
2. We are grateful to Dr Tristan Youngs of RAL for his expert instructions and generous support.

New Workshop Series: Sustainable Manufacturing for the Chemical Industry



In close consultation with industry, the Green Chemistry Centre of Excellence (GCCE) have organised a series of interactive workshops, which have been designed to provide an insight into the issues surrounding sustainable manufacturing including change management, commercialisation, environmental impact, circular economy, legislation and bio-resources including the conversion of waste into valuable products. The multidisciplinary course content incorporates industrial case studies, providing access to real business issues, and will be delivered by experts from departments across campus as well as from industry.

The interactive nature of the workshops will also provide opportunities for open discussion and debate, as well as training to enhance communication skills, improve team-working and develop problem based and logical approaches. The workshops will also provide the chance to network with like-minded individuals on campus, and some of the workshops will be followed by additional networking sessions where refreshments will also be provided.

Content

Three of the workshops 'What is Green Chemistry?', 'Business Case for Green' and 'Biorefining Waste' have already passed but there are still spaces at the following workshops.

1 March 2017	<u>Running a Sustainable Chemical Company</u>	Robert Brocklesby, Brocklesby Ltd; Dr Glenn Hurst & Dr Rob McElroy, Department of Chemistry
15 March 2017	<u>Safer Chemicals for Healthy Buildings</u>	Dr Nic Carslaw, Environment Department

Who is it for?

These workshops are open to all on campus with an interest in the future of sustainable manufacturing. Graduates, PhDs and postdocs are particularly encouraged to attend.

How do I sign up?

Follow the links on the previous page to register your attendance at each of these workshops via Eventbrite. Attendance at all workshops is not compulsory but is encouraged. Places are limited and will be allocated on a first come, first served basis.

To find out more details on the individual workshops, visit the Eventbrite pages, or alternatively contact Dr Rob McElroy (rob.mcelroy@york.ac.uk) or Louise Summerton (louise.summerton@york.ac.uk) or visit:

<https://www.york.ac.uk/chemistry/research/green/renewchem/workshops/>.

Solvents Day 2017 Symposium



A free one-day symposium on safer, greener and more sustainable solvents.

Tuesday, 21 March 2017, 9.30am—5pm

GCCE, F Block

- Learn which widely used solvents will be restricted / banned in the near future and the alternatives that the GCCE can help to find.
- Find out which alternative solvents are sustainable and economically attractive compared with conventional organic solvents.
- Listen to talks from our experts in solvents research from the Universities of York, Leicester, Bath and Nottingham.
- Listen to talks from companies that can supply alternative solvents and those who are currently benefitting from using them, such as Circa and SCI Green Innovations Ltd.
- Opportunities for knowledge transfer, discussion and networking.
- Demonstration of CHEM21 online solvent selection tool and associated learning resources.
- Taster session on CPD Course “Solvent Selection and Substitution”.

Register your place for free by Monday 13 March 2017 at <https://solventsday2017.eventbrite.co.uk>



Independent Fellowships Open Day – 24 March 2017



The Department of Chemistry will be holding an Open Day for researchers interested in applying for independent fellowships to be based in York. Potential applicants are invited to come and visit the Department on Friday 24 March 2017 to meet fellow scientists, view our facilities and learn more about the Department and its work. Both external and internal candidates are encouraged to attend.

The programme outline is as follows:

- | | |
|-------------|--|
| 10.00-10.30 | Registration and coffee |
| 10.30-12.00 | Introduction to the Department <ul style="list-style-type: none">• Department research themes and strategy• Equality and diversity• Research support |
| 12.00-14.00 | Tours of the Department, lunch, and networking |
| 14.00-15.30 | Current and former research fellows talk about their work and their career |
| 15.30-16.00 | Tea |
| 16.00-16.45 | Panel Q&A session |
| 16.45-17.30 | Refreshments and networking |

To register or for more information on independent fellowship opportunities in Chemistry at York, please see our Fellowships webpage: <http://www.york.ac.uk/chemistry/research/fellowships/>

Please direct any enquiries to chem-research@york.ac.uk.

Please circulate this opportunity as widely as possible.

Irish Funding Bodies to Require Institutions to Hold Athena SWAN Award

Three funding bodies in Ireland, Science Foundation Ireland, the Irish Research Council and the Health Research Board, will require higher education institutions (HEIs) to hold at least the Athena SWAN Bronze Award by the end of 2019 in order to compete for funding. By the end of 2023, institutions will have to have progressed to the Silver Award to compete for funding. The annual budget between these three leading funding bodies is roughly €230m.

The move comes after the Higher Education Authority (HEA) *National Review of Gender Equality in Higher Education Institutions* found that significant gender inequality exists in Irish HEIs, with women making up only 19% of professors (across all subjects). HEIs cannot progress to their full potential while allowing gender inequality to continue and therefore the HEA have welcomed this move. Interim CEO Dr Anne Looney stated:

“Strong inter-agency coordination and collaboration is the key to achieve the vision for gender equality... This joint approach agreed by SFI, the IRC and HRB, who together allocate the bulk of competitive research funding in Ireland, is an example of just that. It sends a clear message; research funding will only be awarded where gender equality is taken seriously.”

This move puts the onus on institutions, rather than individuals, to push for gender equality in higher education and makes a bold link between academic progression and diversity. Currently, only three Irish universities hold the Athena SWAN Bronze Award: the University of Limerick, University College Cork and Trinity College Dublin. This funding decision should result in a new emphasis on gender equality in Ireland, benefitting people and research.

We are not currently aware of any restrictions in the UK, but in Horizon 2020 applications you need to specifically address equality and diversity in order to demonstrate the capability of the institution to host the award.

- Madeleine Stone (equality and diversity graduate intern)

Suggestion Box



Reminder: There is an online anonymous suggestion box for staff under the Equality and Diversity section of the intranet: <http://www.york.ac.uk/chemistry/internal/> and a physical suggestion box located outside Room K167 for YSBL staff. Suggestions from staff are most welcome. All suggestions are discussed by the appropriate departmental committee.

LGBT STEMinar 2017

On a very cold day in January, a group of us braved the sudden snow to travel to the LGBT STEMinar in Sheffield. This is a fantastic research conference for people who work in STEM (Science, Technology, Engineering, Mathematics) subjects and identify as LGBT+ and allies. For the last two years the conference has been organised and held in Sheffield.

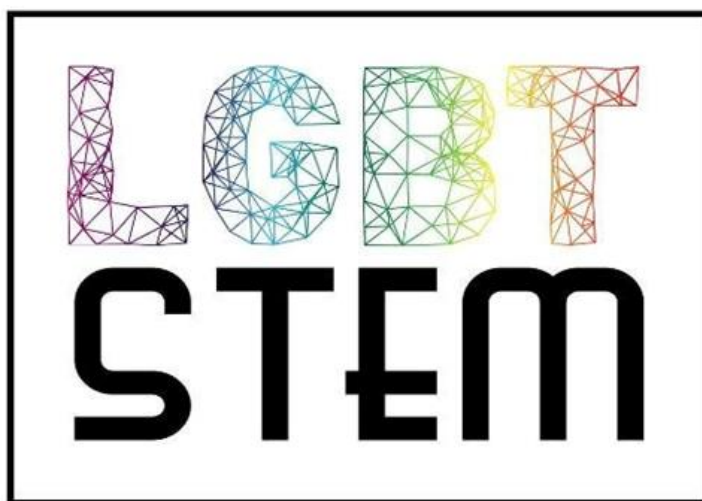
The aims of the day are to showcase work from diverse fields and to encourage collaborations between different departments, Universities, companies and subjects. The conference also welcomes those who may not identify as LGBT but wish to discover and support the work that LGBT+ people are doing.

It was great to see such a diverse range of talented individuals and research areas represented. For me, this underlines the importance of creating a supportive and inclusive environment where everyone can be themselves and achieve their potential.

The keynote address was from Bastian Greshake, a biologist-turned-bioinformatician, working on his PhD in the Group for Applied Bioinformatics at the University of Frankfurt. Bastian co-founded openSNP, an impressive crowdsourced/citizen science open data project that puts personal genetics data into the public domain. The theme of 'openness' really captured the mood of the day.

Leonie Jones, Chemistry's Employability and Diversity Officer, presented a poster on the Department's innovative Unconscious Bias Observer Scheme. The scheme has been developed to address unconscious bias during recruitment and promote good practice. The poster generated some great discussion and useful links.

Excitingly, we have been selected (by popular vote) to host next year's event: so watch this space. <https://lgbtstem.wordpress.com/lgbt-steminar-2017/>



Wrapped up warm at the LGBTSTEMinar: Dave Smith, Robin Brabham, Leonie Jones and Derek Wann.

Mentoring Pilot for Research Staff Launched

Chemistry is taking part in a pilot, cross-departmental, mentoring scheme for research staff (postdoctoral associates and fellows). We have seen from the staff surveys and focus groups that there is a desire for more mentoring and so we are working with the Research Excellence Training Team (RETT) on this initiative.

The scheme is based on existing, successful schemes at Cambridge, Sheffield and Bristol. To increase the opportunity for open discussion, mentees will usually be matched with mentors from outside their home department (matching from within the Department of Chemistry is also possible).

Mentoring is a key part of our equality initiative and we see it as a way to support the career development of our staff. It allows us to think about what we want next in our career or to figure out how to get there though building up our skills and experience.

Who can apply?

Research staff (postdoctoral associates and fellows - Grades 6 and 7 initially) who are employed primarily to conduct research in the four departments: Chemistry, Environment, Physics and Health Sciences. If you are interested in having a mentor please complete a [Mentee Application Form](#) by 28 February.

Could you be a mentor?

We are also looking for academic staff who are willing to act as mentors on the pilot programme. You don't need any prior experience as training will be provided. If you wish to apply please complete the [Mentor Application Form](#) by 28 February.

A 90 minute training session will be provided for mentors and mentees. This will include unconscious bias awareness training. Both mentors and mentees are strongly encouraged to attend. Sessions will be on Thursday 2 March, 10:00 - 11.30 and Monday 20 March, 10.30 - 12:00.

If you have any questions, please get in touch with leonie.jones@york.ac.uk; Leonie is the Chemistry Employability and Diversity Officer.

[Details of pilot mentoring scheme, time commitment and application forms.](#)

Additional sources of support: In addition to the above scheme which is currently aimed at research staff, there are a number of other sources of support.

Buddy-Mentors: All new staff and PGR students are appointed a buddy mentor when they arrive to help them to settle into the Department.

If you do not have a buddy mentor but would like one, or if you would like advice on sources of career development support, please get in touch with [Helen Coombs](#) or Leonie Jones in the first instance.

CV, interview and general careers planning: Graduate students and postdocs can make an appointment for a one to one with Leonie.

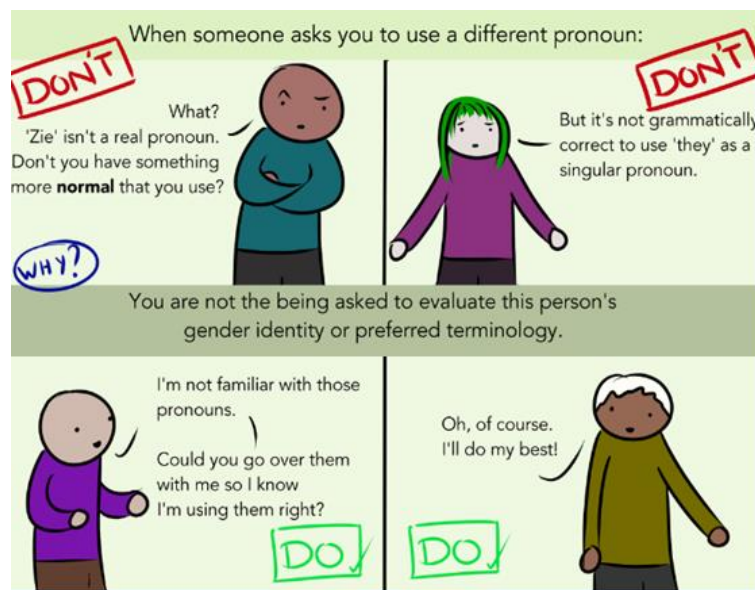
University coaching scheme: The University also has a pool of [trained coaches](#) open to all staff, which at present are under-utilised. You may even wish to have both a mentor and a coach for different purposes.

Personal Gender Pronouns

What is a personal gender pronoun (PGP)?

A PGP is the pronoun a person uses for themselves. They can be gender-specific (also known as binary) - he, she, hers, his; or **gender-neutral** - **them, they, theirs**.

Others may chose to use other gender neutral pronouns. Common examples of these pronouns would be zie, hir and xe, but some individuals prefer others so be sure to clarify these with them. Some people prefer not to use pronouns at all and use their name as a pronoun instead (e.g. Anna ate Anna's food because Anna was hungry).



Why are PGPs important?

The use of neutral PGPs is becoming more widespread. It is not always possible to know what someone's PGP is by their outward appearance or gender presentation. Often we assign gender-specific pronouns "he" or "she" to those around us, but many people have a gender expression that is neither male nor female; it may be fluid, neutral or they may identify their gender in a different way.

Using neutral PGPs ensures that everyone is involved in a conversation regardless of their identity. Asking and correctly using someone's personal pronoun is one of the most basic ways to show your respect for their gender identity. When someone is referred to with the wrong pronoun, it is known as mis-gendering and can be offensive and hurtful to the individual who has been mis-gendered.

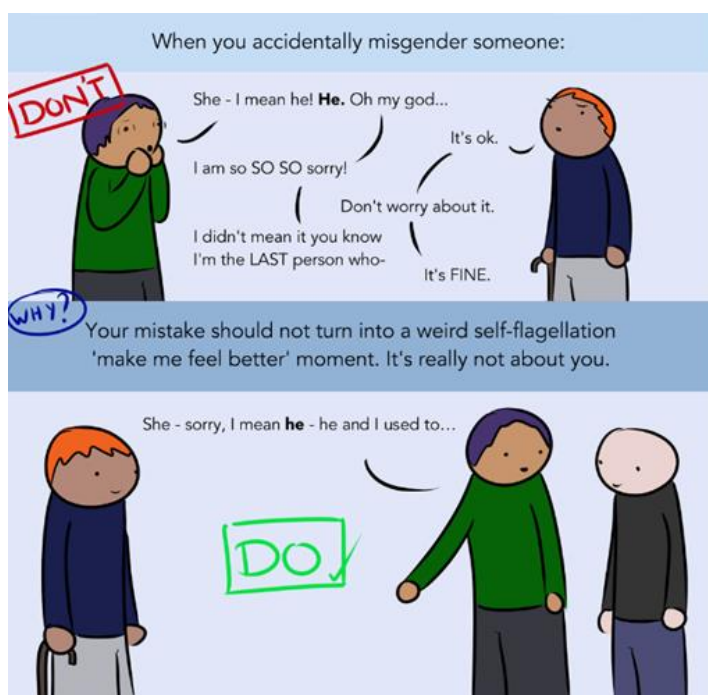
How to use PGPs

- If a **visitor on a UCAS day** asks where the toilets are offer both options: "all toilets are behind Reception" rather than "the ladies toilets are on the left behind Reception".
- If you are in any form of leadership position (e.g. tutor group supervisor) you could consider asking members of a group to **share their preferred pronouns** when you first meet, and share yours. For example "My name is Tom and my pronouns are they, them, theirs" This has been introduced as standard practice in several YUSU committees at York already.

- If you do not know someone's PGPs and you are **writing an email** to them (e.g. about them visiting next week) or about them (e.g. arranging an access card for their arrival) use the gender-neutral 'them, their, they'.

What if I make a mistake?

It's okay! Everyone makes mistakes from time to time. The best thing to do if you use the wrong pronoun is to correct yourself straight away. If you realise your mistake afterwards, apologise in private and move on. It can be tempting to say how bad you feel that you made a mistake, but this can make the person who was mis-gendered feel awkward and responsible for comforting you, which is not appropriate.



What if someone else makes a mistake?

If you hear others using the wrong pronoun for someone, it is appropriate (in most cases) to gently correct them without further embarrassing the individual who has been mis-gendered. This means saying something like "Actually, Sam uses the pronoun he," and then moving on.

If other people are consistently using the wrong pronouns for someone, it is important that you do not ignore it. It may be appropriate to approach the mis-gendered person and say something such as "I noticed that you were getting referred to with the wrong pronoun earlier, and I know that that can be really hurtful. Would you be okay with me taking them aside and reminding them about your personal pronoun?" You should take your cues from the comfort level of the person who has been mis-gendered.

Adapted from <https://uwm.edu/lgbtrc/support/gender-pronouns/>

Sources: <http://www.bbc.co.uk/news/magazine-34901704>

Images: <http://www.robot-hugs.com/pronoun-etiquette>

Staff Race Equality Forum

Following the successful launch of the Staff Race Equality Forum on 31 January, the next step is to invite members of staff to join the Forum.

Membership of the forum is inclusive and open to all members of staff interested in celebrating and promoting progress and good practice in race equality matters.

The Staff Race Equality Forum will meet three times a year and provide an opportunity for members to share good practice, raise awareness and contribute ideas / initiatives. At the first meeting we have considered a number of activities that we would like the forum to achieve and how we can go about this.

A mailing list for the Staff Race Equality Forum will be managed by the Equality and Diversity Office and used to communicate information about meetings and the work of the network to members.

If you would like to join the Staff Race Equality Forum, please complete this [short form](#).

New Starters

Louise Wise, Development Manager (Fundraising) CIEC, working with JP
Room: B016; Extension: 2528; Email: louise.wise@york.ac.uk

Dr Graham Cheetham, Research Fellow CHyM with SBD
Room: CHM/101; Extension: 8892; Email: graham.cheetham@york.ac.uk

Joshua Bray, Research Associate working with IJSF
Room: E114; Extension: 2584; Email: joshua.bray@york.ac.uk

Dr Soon Wen (Scott) Hoh, PDRA working with KDC
Room: B/K/264; Extension: 8252; Email: soonwen.hoh@york.ac.uk



Green Impact

A Message from the Green Impact Team

To all staff and students

Do you have any green / energy / recycling ideas?

If so, the Chemistry Green Impact Team would love to hear from you!

Please email Duncan Macquarrie, Chair of the Chemistry EPG at chem-epg@york.ac.uk (and ideas will be credited, or remain anonymous if you so wish).



University Reuse Policies

Please use the recycling bins around the Department instead of throwing rubbish in the bin (as the vast majority can be recycled). See the following webpage for more information:

http://www.york.ac.uk/admin/estates/operations/waste_management/recycling/

Do you have enough recycling bins?

As part of the Green Impact Scheme, we are currently looking at whether or not there are enough paper recycling bins throughout the Department. As a guideline, there should be at least one paper recycling bin per 10 desk-based members of staff. If you or your research group would like another paper recycling bin, please let Duncan Macquarrie know at chem-epg@york.ac.uk.

Students - please email chem-epg@york.ac.uk if you have any queries or requests for extra recycling facilities in the Department.

For an excellent visual detailed guide to recycling at York, see:

<https://www.york.ac.uk/about/sustainability/recycling/>

Also follow the links on the left covering sustainability, procurement, energy management and sustainable travel.

For Staff - *new* Warp It sustainable re-use system.

Save Money and Improve Environmental Sustainability by:

- Easily advertising items that you no longer need but may be of use to someone else, rather than just throwing away as waste.
- Simply and cheaply obtain items that you need (which others have placed on the site) instead of buying new!

These could include furniture, pieces of equipment, stationery, or any other resources. Warp It makes it easy and free for staff to claim items they want and advertise and give unwanted items to other University departments. This is currently only internally available to University of York departments for University staff use (i.e. not to be used for personal items / benefits).

Furniture re-use system is still in operation:

<http://www.york.ac.uk/admin/supplies/fru/index.cfm>

Also check to see if you can use any of the goods offered - for free!

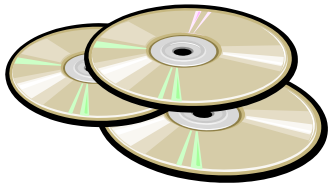
You can also subscribe to receive emails when things are advertised.

Clothes Banks at Every College

Don't throw away old clothes / shoes – put them in the British Heart Foundation clothes banks, which are located at every college.



Please Recycle Unwanted CDs



Please send any CDs to be recycled to the Post Room, Car Park South. For more than a few CDs, please place them in CD/DVD confidential waste bags, available from the mail room at mail-room@york.ac.uk.

Switching Off

Reminder to all staff and students

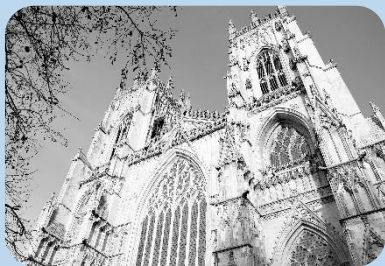
- Monitors - these need to be turned off when you are not using them (they use up to 50% of energy of both monitor and computer combined!).
- Equipment not being used - please switch off any equipment when you finish using it especially before you go home (apart from computers in the computer rooms which are automatically switched off at the end of each day).
- Lights - ask yourself before you use the lights "Do I really need all the lights on?" Use part-lighting where applicable. Please turn off the lights when you have finished using them. If you see an empty room with lights on (and there is nothing in there), please turn the lights off!
- Heating - turn down where applicable and especially at the end of the day (see below).



Heating



As part of our green initiative with Green Impact, we would like to encourage all members of the Department to wear appropriate clothing for the weather. This helps us to avoid unnecessary heating or air conditioning throughout the year. We would like to keep cooling to no lower than 24 degrees and heating to no more than 21 degrees. By layering up with thick jumpers in the winter months and wearing light, loose clothing in the summer, we can avoid wasteful energy use!



Emerging Areas of Photochemistry: From Fundamentals to Applications

16 March 2017 – 17 March 2017

**Department of Chemistry
University of York**

Through an outstanding talk programme and poster session, we aim to bring together early career researchers, postgraduate students, post-doctoral researchers, academics and industrialists to discuss the most recent innovations in the field of photochemistry and photophysics. **All very welcome!**

Registration and poster submission open now!
york.ac.uk/chemistry/research/inorganic/inorganic-seminars/photochemistry-symposium-york-2017/

Bursaries available to members of the Solar Fuels Network.

A £10 contribution towards catering will be collected on the door.

**Registration deadline and poster submission:
28 February 2017**

Contact Information

Dr. Lucía D'Andrea
University of York
lucia.dandrea@york.ac.uk

External speakers

Julia Weinstein
University of Sheffield

Chantal Daniel
University of Strasbourg

Ally Aukauloo
University of Paris-Sud

Robert Bittl
Free University of Berlin

Erwin Reisner
University of Cambridge

Peter Seeberger
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