



Fourth Annual BASF Summer School for Chemistry Teachers

Industrial Chemistry and Atmospheric Chemistry in the Leaving Certificate Chemistry Syllabus.

Eureka Centre, Kane Building, University College Cork.

Tuesday 23 June and Weds 24 June 2015.

(Day 2 is a repeat of Day 1).

This summer school involves a partnership between BASF, PDST, UCC and the Cork branch of the ISTA. The aim of the summer school is to give chemistry teachers the opportunity to develop their understanding of the Industrial Chemistry and Atmospheric Chemistry sections of the Leaving Certificate Chemistry syllabus. We will visit the BASF plant in Little Island, Co. Cork to see a batch reactor in operation and to learn about the overall operation of a modern chemical plant. Also, we will have presentations from experts on those aspects of atmospheric chemistry that are relevant to the Leaving Certificate Chemistry syllabus. In addition, we will visit the liquid nitrogen plant in UCC to learn about the liquefaction of the air as specified on the syllabus. Finally, all the new laboratory practicals to be examined from June 2015 in the Leaving Certificate Chemistry examination will be set up in the Eureka labs to enable participants to perform these experiments and discuss them with the other participants.

PROGRAMME

9.00 – 9.30 Registration. Tea / Coffee in Room G2 Kane Building, UCC.

9.30 – 10.15 *The Greenhouse Effect* - Professor John Sodeau, Department of Chemistry, UCC

10.15 – 11.00 *The Ozone Layer and CFC Substitutes* – Dr. John Wenger, Dept. of Chemistry, UCC.

11.00 – 11.15 Tea / Coffee.

11.15 – 11.45 *Liquefaction of Air in the Leaving Certificate Chemistry syllabus*

- Dr Donnacha O'Connell, Department of Chemistry, UCC.

11.45 – 1.00 Laboratory practical session – Dr Declan Kennedy, Department of Education, UCC.

/ Visit to liquid nitrogen plant (in small groups) – Dr Donnacha O'Connell, Dept of Chemistry, UCC.

1.00 – 2.00 Sumptuous lunch in UCC staff dining room.

2.00 Bus departs from UCC to BASF Little Island.

2.30 – 4.00 Tour of BASF plant and viewing of batch reactor in operation – BASF staff.

4 p.m. Presentation of Certificates of Attendance.

Travel expenses and subsistence allowance will be paid by PDST under the usual terms.

