

Applied Catalyst Deactivation

One Day Symposium

JM Chilton Conference Centre, Belasis Avenue, Billingham
England

Wednesday 23rd, March, 2011



RSC | Advancing the
Chemical Sciences

Industry and Technology Division, Applied Catalysis Group

Applied Catalyst Deactivation

A symposium on the theme “Applied Catalyst Deactivation” will be held on Wednesday 23rd March 2011 at the JM Chilton Conference Centre. Registration commences at 9:30 and the meeting will run from 10:00 till 16:30. In addition to papers from a wide variety of experts in applied catalysis the meeting will also include a tour, for a limited number of delegates (on a first come first served basis) of JM Catalysts laboratories at the Chilton R&D Centre in Billingham.

- **Introduction:**

The accepted definition of a catalyst is “*a substance that causes or accelerates a chemical reaction without itself being affected*”. However, in real world applications, catalysts invariably exhibit some decline in their performance during operation. Ultimately this becomes so severe that it is necessary to replace the catalyst. Because of the obvious difficulties resulting from catalyst deactivation, much effort has been expended to study and understand its fundamental causes. Building on this body of work, this symposium will focus on the major causes of catalyst deactivation in process plants and methods that may be used to mitigate the effects of these phenomena.

- **Who should attend:**

The symposium will be of interest to both Chemists and Chemical Engineers wishing to learn more about the deactivation of catalysts operating in industrial process plants, successful strategies for investigating the causes of catalyst deactivation and steps that may be taken to minimise the effects.

Programme:

Morning Session:

9:30-10:00	Registration	
10:00-10:15	ACG/conference aims	Dr M.A.Wood Davy Process Technology
10:15-11:00	Main causes of catalyst deactivation	T.B.A. (BASF Catalysts)
11:00-11:45	Catalyst design to minimise deactivation	Dr. M. Watson (JM Catalysts)
11:45-12:30	Coke formation	Prof. D. Jackson (U. of Glasgow)
12:30-14:00	Lunch / Tours / Posters	

Afternoon Session:

14:00-14:45	Techniques to evaluate deactivated catalysts	Prof. K. Waugh (U. of Manchester)
14:45-15:30	Commercial catalyst deactivation	Dr A Ward (SABIC Petrochemicals)
15:30-16:15	Applied catalyst deactivation modelling	Dr. J. Birtill
16:15-16:30	Wrap up / poster awards	

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- **Posters**

The deadline for poster submissions is 14th January 2011. Please submit a 100 word poster abstract to Dr. M. A. Wood * and entitle your email 'poster abstract: ACG Symposium'. Please state if you are applying for a travel bursary.

- **Bursaries**

Free registration for the first 10 students who are accepted to present a poster. 10 travel bursaries (to the value of up to £100 each) are also available to RSC/ICHEME students presenting a poster. If you wish to apply for a travel bursary, please state when submitting poster abstract. For further information, please contact Dr. M. A. Wood *

- **Registration**

The deadline for registration is Friday, 18th February 2011 and IChemE members receive same rate as RSC members (enter promotional code "promoicheme", and email your IChemE membership number to Dr. M. A. Wood*)

Registration for this symposium is online only at:

<http://www.rsc.org/ConferencesAndEvents/conference/alldetails.cfm?evid=107223>

Early Bird Rate before 14th January 2011

IChemE / RSC Member£60

IChemE / RSC Student£30

Non-Member£75

Booking Rate after 14th January 2011

IChemE / RSC Member£80

IChemE / RSC Student£40

Non-Member£100

If you have special requirements (dietary/access/other) please register as above and then contact Dr. M. A. Wood.*

*Contact details: Dr M.A.Wood, Vice President Research & Development, Davy Process Technology. Tel.: (44)-1642-853809; e-mail: Mike.Wood@davyprotech.com

Cancellations: Received in writing 1 month prior to the meeting will be subject to a 25% administration charge. Refunds cannot be made for cancellations received after this period although substitutions may be made.

Should unforeseen circumstances occur, ACG reserves the right to alter the content of the programme and cancel or postpone any of its meetings without notice or, in the case of complete cancellation, liability to enrolled delegates other than return of fees.

Data Protection: The personal information included on the registration form will be used by the RSC/ACG/IChemE only and will not be disclosed to any third parties.

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Venue:

The symposium will be held on the Johnson Matthey Chilton Conference Centre, Belasis Avenue, Billingham (post Code TS23 1LH)

Getting to the JM Chilton Conference Centre:

BY ROAD

From the North, through the Tyne Tunnel, the A19 eventually intersects the A1027 (By-Pass Road) at Billingham - follow the A1027 to the roundabout where it meets the B1275 (Billingham Bank) then follow the B1275 (Billingham Bank/ South View Road) East to Belasis Ave.

From the South, Dishforth on the A1 links, via the A168, with the A19. Follow the A19 North to the junction with the A139 (Norton) then follow the A139 East , to the roundabout where it meets the B1275 (Billingham Bank). Follow the B1275 (Billingham Bank / South View Road) East to Belasis Ave.

BY RAIL

Darlington gives access to the mainline network. The nearest local stations are situated in Stockton-on-Tees (10 min. by Taxi) and Billingham (5 min. by Taxi)

BY AIR

The nearest airport to is Durham-Tees Valley Airport which is ~25 minutes drive. Alternatively, Newcastle International Airport is ~ 1 hours drive and Leeds/ Bradford Airport is ~1 hours drive.

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