



**Advances in Process Analytics
and Control Technologies
2018 Conference**

**APACT
18**

Call For Papers

Wednesday 25th - Friday 27th April 2018

(pre-conference courses will be held on 24th April)

**The Hilton Gateshead,
Newcastle**



APACT 18

**EFFECTIVE IMPLEMENTATION OF PROCESS ANALYSIS AND CONTROL INTO YOUR
MANUFACTURING OPERATIONS WILL HAVE A MAJOR IMPACT ON YOUR PROFITS**

**SUCCESSFUL USE OF PROCESS ANALYSIS AND CONTROL INVOLVES
MANY TECHNOLOGIES - IT IS TRULY A MULTIDISCIPLINARY ACTIVITY.**

The financial, safety and environmental benefits of process analysis and control (PAC) technologies have never been more important to modern manufacturing in the pharmaceuticals, chemicals, materials, petrochemicals, biotechnology, food industries, and many others.

The benefits of in-process measurements, real-time data mining and predictive modelling include:

- Improved process efficiency or conversion
- Reduction of waste products
- Better safety
- Improved fundamental understanding of your process
- Reduced "time-to-market"

APACT is an open forum for the presentation and discussion of recent scientific and engineering advances relevant to process analytics and control technologies. Plenary and keynote speakers will report recent advances in the development and application of novel process analytics, predictive modelling and control technologies, and will review the benefits achieved. Following the success of previous conferences, APACT 18 will be a 3 day meeting featuring plenary and parallel sessions on topics crucial to the achievement of manufacturing excellence.

The conference is aimed at:

- Senior managers, scientists and engineers in the process industries
- Academics specialising in analytical science, control technologies and other related disciplines
- Companies that develop and market PAC technologies

The programme will feature invited and contributed lectures, poster presentations and a vendor exhibition, including the unique APACT Exhibitor Showcase. The meeting is an ideal forum for networking and information gathering on PAC. Those new to process analysis or process control will benefit from the friendly atmosphere that typifies an APACT conference.



www.apact.co.uk

Speakers include:

Thomas De Beer, Ghent University, Belgium - "Model based optimal process analyzer implementation in pharmaceutical manufacturing processes"

Lee Smith, Process Instruments, USA - "Raman applications throughout the petroleum refinery - Crude unit to blending"

Christoph Herwig, Technical University of Vienna, Austria - "Multi-parametric control strategies for enabling continuous biomanufacturing"

Tom Rodgers, The University of Manchester, UK - "Electrical Tomography for on-line process monitoring"

Vicki Woodward/Nicholas Pedge, AstraZeneca, UK - "Establishment and lifecycle management of Transmission Raman Spectroscopy for near-time monitoring"

Chee Wee, Institute of Chemical and Engineering Sciences (ICES), Singapore - "Scaling up batch polymorphic crystallization using PAT/QbD approach"

Sean Bermingham, Process Systems Enterprise (ADDopT), UK - "Digital design (and operation) of drug products and their manufacturing processes"

Patrick Wray, Bristol-Myers Squibb, UK - "High speed video analysis and modelling as techniques for scale up of wet granulation"

Call for Papers

Papers may be submitted for oral or poster presentations on any topics relevant to process analysis and control, in-process measurements and data analysis, including the following themes:

- On-line/Non-invasive Analysis Techniques
- Miniaturisation of Sensors
- Process Intensification
- Design of Experiments
- Multivariate Curve Resolution
- Calibration-free Methods
- Process Control and Optimisation
- On-line Process Diagnostics
- Fast process Scale-up
- Hyperspectral imaging
- Signal Processing
- Process Performance Monitoring
- Data Mining
- Chemometrics
- Flow reactors
- Industrial Applications
- Image Analysis
- Value Analysis
- Process/Bio-process Modelling
- Continuous manufacturing
- Process analytical aspects of Robotics
- Process analytics and control aspects on digital manufacturing and/or Industry 4.0
- Predictive manufacturing



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Submission of Abstracts

Abstracts (maximum 500 words) may be submitted on-line at www.apact.co.uk or e-mailed to admin@cpact.com by Monday 16 October 2017.

If sending via email, please indicate if an oral or poster presentation is preferred and submit using the following format:

Title – Arial 14 pt, bold, centered, 1.5 line space

Author details - Authors (please underline the presenting author), Organisation, Country,

Email address

Main text – Arial 12 pt, fully justified, 1.5 line space

Pre-conference courses

The following courses will take place in parallel on Tuesday 24th April at the Hilton Hotel:

- (1) Introduction to Design of Experiments
- (2) Introductory Chemometrics without Equations
- (3) Batch Process Analysis and Monitoring

The courses will be open to conference delegates as an additional option at a reduced rate, or may be attended on a 'course only' basis.

Important Deadlines

Deadline for submitting abstract: Monday 16 October 2017

Notification of acceptance: Monday 6 November 2017

Final programme issued: Monday 27 November 2017

Registration deadlines:

Early registration discount - before Monday 8 January 2018

Last date for registration - Monday 16 April 2018

Accommodation to be reserved - by Monday 26 February 2018

Exhibition

Equipment and software from vendor companies will be exhibited during the conference. In addition, there will be a number of sponsorship opportunities for participating companies.

Any interested companies should contact the CPACT Administration Office for further details. (Email: admin@cpact.com Tel: +44 (0)141 548 4836)



CONFERENCE REGISTRATION FEES

Click here to Register Online - www.apact.co.uk

Conference registration fees include the abstract book, tea/coffee and lunch during the three days of the conference. Dinner on Wednesday 25 April and a special conference dinner on Thursday 26 April are also included.

Early Bird Registration Deadline: Monday 8th January 2018

CPACT members - £550

Non-members - £700

Student Discounted Registration Fee (student ID will be required) - £250

Registration after Monday 8th January 2018:

CPACT members - £700

Non-members - £850

Student Discounted Registration Fee (student ID will be required) - £250

The following pre-conference courses will run in parallel on Tuesday 24th April 2018:

- (1) An introduction to Design of Experiments
- (2) Introductory Chemometrics without equations
- (3) Batch Process Analysis and Monitoring

Pre-conference course registration if attending the conference:

£150

If attending pre-conference course only:

£300

CANCELLATION: Fees are refundable only up to eight weeks before the event. Substitution may be made at any time.

ACCOMMODATION has been reserved at a special rate of £110 B&B per night at the Hilton Gateshead Hotel, Bottle Bank, Newcastle Upon Tyne, NE8 2AR. Website: www.hilton.co.uk/newcastlegateshead. Accommodation should be booked online when you register at www.apact.co.uk. Only rooms booked by Monday 26th February will be guaranteed at this rate. After this date, the rate and bedrooms will be subject to availability.

NOT CURRENTLY A CPACT MEMBER? If your organisation is interested in joining CPACT, please visit: www.cpact.com

If you require assistance or further information, please contact the conference organiser:

Natalie Kerr, CPACT, c/o Department of Pure & Applied Chemistry, University of Strathclyde, 295 Cathedral Street, Glasgow, G1 1XL Email: admin@cpact.com Tel: +44(0)141 548 4836

Conference Venue

APACT 18 will take place at the Hilton Newcastle Gateshead Hotel. This hotel is in the heart of the city centre, right next to the Quayside and is situated between the famous Tyne and Swing Bridges which link Newcastle and Gateshead Quayside. Set on the banks of the River Tyne, the hotel offers delightful views of the river.

The Hilton Newcastle Gateshead Hotel is just 10 minutes walk from the centre, within easy reach of all major motorway networks and the airport. There is also ample on-site parking.

All bedrooms are of a high standard. The hotel also has a range of wonderful leisure facilities, you can work out in the fully equipped fitness suite, swim lengths of the indoor pool, lie back in the sauna and steam room or treat yourself to a soothing massage in the spa.

See a performance at the Metro Radio Arena or The Sage Gateshead, both within walking distance or shop at the Metrocentre, Europe's largest shopping and leisure centre, located just 15 minutes from the hotel. St James' Park, home of Newcastle United, is only a 10 minute walk away.

A short distance from the city is the stunning North East coast. Its award winning Blue Flag beaches boast the best surf outside of Cornwall and are the perfect location for more leisurely outdoor pursuits and traditional seaside attractions.

Fine dining, late night-shopping and year-round festivals and events make Newcastle Gateshead more than just a conference destination. Linked by seven iconic bridges, Newcastle and Gateshead form a cultural hub that is home to wonders such as the BALTIC Centre for Contemporary Art, The Life Science Centre and of course, the iconic Angel of the North.

Travel to the Hilton Hotel -

Air: Newcastle Airport is approximately 20 minutes drive. Alternatively take the Metro to Gateshead Station. Journey time is approximately 25 minutes, frequency is every 12-15 minutes, starting point Airport Metro Station.

Road: Easily accessible from the A1.

Rail: Approximately 10 minutes in a taxi from Newcastle Central Station.

