



**Advances in Process Analytics
and Control Technologies
2022 Conference**



Celebrating CPACT's 25th anniversary

Call For Papers

Wednesday 14th - Friday 16th September 2022

(pre-conference courses will be held on Tuesday 13th September)

**The Crowne Plaza hotel,
Chester**



APACT 22

The financial, safety, environmental and sustainability 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.

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.

APACT 22 will feature:

- Invited and submitted talks
- Posters
- Flash Poster Presentations
- Exhibition
- Exhibitors Showcase sessions (unique to APACT)
- Pre-conference courses
- Inclusive social activities
- Special features to celebrate CPACT's 25th Anniversary

APACT 22 Conference Themes:

- Advances in process engineering modelling and control
- Developments in bioprocess analysis and control
- New methodologies in data analysis and modelling
- Advances in process analysis technologies
- Digital manufacturing
- Sustainability and the circular economy

Who should attend?

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 process analysis, data analysis and modelling and control technologies

Quotes from previous delegates

"Great presentations - the relevance to industry has been fantastic"

"I enjoyed th conference a lot, very well organised and stimulating content"

"The 'exhibitors showcase' was a great format which i've never come across before and found it a great way of introducing a bit of fun"

"A good time was had by all and the presentations were very interesting"

If you require further information, please contact the conference organiser: Natalie Kerr, CPACT, Email: admin@cpact.com Tel: +44(0)141 548 4836

www.apact.co.uk

CPACT's 25th anniversary

This year is the 25th anniversary of the formation of the Centre for Process Analytics and Control Technology (CPACT) which organises ARACT. To celebrate the event, ARACT 22 will include a number of additional features in the scientific and social programmes. For more information on CPACT and what it offers to its member organisations, visit www.cpact.com

Invited speakers include:

Katherine Bakeev (B&W Tek)
Bradford Behr (Tornado)
Carol Brigley (Mondelez International)
Tobias Eifert (Covestro)

Gary McGeorge (Bristol-Myers Squibb)
Marco Reis (University of Coimbra)
Juan Rosas (Organon)
Barry Wise (Eigenvector)

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. Topics relevant to the themes of ARACT 22 include:

- Process control and optimisation
- On-line process diagnostics
- Process performance monitoring
- Predictive and hybrid modelling
- Real-time monitoring of bioprocesses
- Bioprocess modelling
- Calibration-free methods
- Data mining
- Calibration model maintenance and transfer
- Advances in in-line/on-line/non-invasive analysis technique
- Advances in process statistics
- Miniaturisation of analysers/sensors and sensor networks
- Imaging and image analysis
- Soft sensors
- Digital twins
- Integration of analytics for autonomous process control
- Process analytical aspects of robotics
- Data systems and standards for assured manufacturing quality

Submission of Abstracts

Abstracts (maximum 500 words) should be preferably submitted on-line at www.apact.co.uk or e-mailed to admin@cpact.com by 30th April 2022

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

www.apact.co.uk

Exhibition

The Exhibition and Exhibitors Showcase are central features of APACT conferences.

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.

Full details on exhibition and sponsorship opportunities can be found at:

<https://www.apact.co.uk/Exhibition>

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

Student bursaries

Student bursaries will be available at the conference. Details will be published shortly at www.apact.co.uk

Pre-conference courses

The following courses will take place in parallel on the afternoon of Tuesday 13th September at the Crowne Plaza hotel:

- (1) **Non-linear Machine learning for calibration and classification**, presented by Barry Wise, Eigenvector Research
- (2) **Screening & optimisation in one; Experimental efficiency through definitive screening designs (DSDS)**, presented by Matt Linsley, University of Newcastle
- (3) **Process Analytics - Identifying and evaluating use of statistics, sensors and advances analytics to develop the most relevant and impactful KPIs for your process**, presented by Geir Rune Flaten, Aspentech

Important Deadlines

Deadline for submitting abstract: 30th April 2022

Notification of acceptance: 31st May 2022

Final programme issued: July 2022

Registration deadlines:

Early registration discount before 5th July 2022

Last date for registration: 7th September 2022

Accommodation to be reserved by 5th July 2022

www.apact.co.uk

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 14th September and a special conference/CPACT 25th anniversary dinner on Thursday 15th September are also included

Early Bird Registration Deadline: 5th July 2022

CPACT members - £575

Non-members - £750

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

Registration after 6th July 2022

CPACT members - £725

Non-members - £900

Student Discounted Registration Fee - £250

The following pre-conference courses will run in parallel on the afternoon of Tuesday 13th September:

- (1) Non-linear Machine learning for calibration and classification
- (2) Screening & optimisation in one; Experimental efficiency through definitive screening designs (DSDS)
- (3) Process Analytics - Identifying and evaluating use of statistics, sensors and advances analytics to develop the most relevant and impactful KPIS for your process. Adding discussion around tools and approaches for practical implementation

Pre-conference course registration if attending the conference:

£150

If attending pre-conference course only:

£300

CANCELLATION: Fees are refundable only up to ten weeks before the event. Substitution may be made at any time. If the conference date needs to change due to Covid-19, your registration will automatically be carried forward to the new date.

ACCOMMODATION has been reserved at a special rate of **£110 B&B per night** at the Crowne Plaza Hotel, Trinity Street, Chester, CH1 2BD (Telephone no: +44 (0)1244 899988)
Website: www.crowneplaza.com/chester

Accommodation should be booked online when you register at www.apact.co.uk. Only rooms booked by 5th July 2022 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 22 will take place at the Crowne Plaza hotel in Chester. This hotel is situated within the city's historic walls with views over the surrounding areas and the Welsh hills. The hotel has a health and fitness club with pool, gym, sauna and spa.

Crowne Plaza is close to many of the area's attractions including Chester Zoo, Chester Racecourse, Cheshire Oaks Designer Outlet, Blue Planet Aquarium and Liverpool Docks.

Chester is the perfect destination to get away from it all. As well as offering diverse and top-class shopping, entertainment and dining venues, the city is home to many sites of historical importance and also boasts some of the UK's leading tourist attractions.

Chester has a great number of historical references, landmarks and attractions. Founded by the Romans in AD79, Chester still bears signs of its past with its Roman Amphitheatre, historic City Walls and Chester Castle all remaining intact.

The City Walls give Chester one of its nicknames as The Walled City. The Walls have a rich history having been altered and extended during both the Saxon and Medieval eras.

Travel to the Crowne Plaza Hotel -

Air: Liverpool John Lennon Airport & Manchester International Airport, both just 35 minutes drive away

Road: Hotel is just minutes from Jct 15 on the M56.

Rail: Chester Station is 1 mile from the hotel. In order to get to Chester you need to change at Crewe. There are inward services to Crewe from London (only 2 hours away), Scotland, Derby, Birmingham & the West Midlands.

