

CPD Events

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A-Level

# Chemistry

## and Science

October - November 2013

[conferences@philipallan.co.uk](mailto:conferences@philipallan.co.uk)



Join our community @PhilipAllanEvts

### Presenters

Martin Bluemel

Ray Dexter

Neil Dixon

George Facer

Chris Foster

Tim Jolliff

Rob King

John Older

Emma Sealey

Mike Smith

Ed Walsh

- ✓ **Guidance** on how to lead an **Outstanding department** with Rob King (*see page 4*)
- ✓ **Support, content and strategies** for all who are **new** to teaching **A-Level Chemistry** (*see page 6*)
- ✓ **Inspiring approaches** to teaching **difficult topics** with Tim Jolliff, Martin Bluemel and Chris Foster (*see page 4*)
- ✓ **Chemistry crash course for non-specialist teachers** with Ray Dexter (*see page 3*)

7 NEW CPD events for your diary

*Thank you for today's course, I found it very informative and interesting. I'm looking forward to getting back into the classroom and trying a number of the suggested techniques out*  
Alex Westwood, GEMS Sherfield School

*5 out of 5! Well structured, detailed, excellent resources and information*  
Alex Westwood, Sherfield School



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# Chemistry and Science

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## Plan ahead and make that budget go further

- Pre-book a 3-course package for £630 - that's just £210 per place!\*
- Pre-book a 5-course package for £975 - that's just £195 per place!\*

## Bring a colleague

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examiners, authors, editors and consultants and over 100 guest speakers who will be joining us across 19 different subject areas throughout 2013/2014. Our events are designed and developed with these leading practitioners and academics to give you the skills and information needed for the classroom. They will deliver advice and information in a practical and inspiring way and also give you the forum to discuss and share new ideas with colleagues.

If you're unsure about which event to attend we have a dedicated customer service team and direct contact with our speakers to answer all your questions.

**Make the quality decision for your CPD requirements**

## Course Presenters

### Martin Bluemel

Martin is a highly experienced IB and A-Level Chemistry teacher and is Head of Chemistry at a leading school. He is also an experienced examiner for a major awarding body and author of a number of IB Chemistry revision guides.

### Ray Dexter

Ray Dexter is currently IB Coordinator at St Edmund's College in Hertfordshire and a tutor for the largest provider of revision material for the IB Diploma in the UK. He has been teaching the IB Diploma for 12 years.

### Neil Dixon

Neil is an Advanced Skills Teacher in Chemistry at a school which was graded by Ofsted in October 2012 as 'Outstanding' in all judgement areas. Neil works as a consultant for the BBC and advises the Royal Society of Chemistry, DfE, Ofqual and other organisations on educational policy and curriculum reform. He has written revision guides, workbooks, and contributes to initial teacher training at a leading University.

### George Facer

George has written textbooks and teacher guides for AS and A2 Chemistry, including several Student Unit Guides for Philip Allan. He has chaired the Chemistry A-Level specification development and is now a reviser for a major examining board.

### Chris Foster

Chris is an experienced and inspiring A-Level Chemistry teacher and was a highly successful and innovative Head of Chemistry for several years. He is an experienced trainer with lots of ideas and approaches to make Chemistry teaching and learning more engaging.

### Tim Jolliff

Tim has been teaching A-Level Chemistry for over 20 years with 12 as Head of Chemistry. He has a superb track record of getting able students the top grades and places at Oxbridge. An experienced trainer and author, he wrote the book 'Chemistry for the Talented and Gifted' for the Royal Society of Chemistry as a School Teacher Fellow.

### Rob King

Rob has considerable experience of leading highly successful Chemistry and Science Departments, and has taught Chemistry to all abilities and ages in various types of school. He is also a Governor of an Academy. He has written numerous publications for GCSE, IGCSE, AS and A2 Chemistry, and is a highly experienced examiner for all three main examination boards at both GCSE and A-Level. He was awarded the Salter's Award for teaching Chemistry in recognition of his outstanding contributions to teaching.

### John Older

John was Vice Principal and a former Head of Chemistry at a major London independent school. He has been involved with specification revisions for over 30 years as both a Principal Examiner and Principal Moderator. He is also co-author of a number of Chemistry textbooks for AS and A2.

### Emma Sealey

Emma is Director of Learning for Science, and is involved in LifeLab, a project which has been developed since 2008 by The Wellcome Trust, The Medical Research Council, researchers in the Southampton Education School, the Faculty of Medicine, and the Science Learning Centre. She also supports the Outreach team at the University of Southampton to deliver sessions on language, pupil engagement and behaviour, and the SLC (SE) Communication Course for trainee teachers.

### Mike Smith

Mike is currently Assistant Principal at a large sixth form college with a thriving Chemistry department of over 300 students. He was previously Head of Chemistry, is a very experienced examiner and has worked for a major exam board for well over 20 years. Mike has authored a number of Chemistry textbooks and revision books.

### Ed Walsh

Ed is a Science Adviser with 20 years' experience of teaching Science, including leading National Strategies project teams on Narrowing the Gap in Science and Curriculum Provision at KS4, and is a very well-respected author of a wide range of Science resources. He was seconded to the National Strategies for 2 years, as a Regional Adviser on the Science & Innovation Investment Framework supporting schools and LAs



## Stretch and Challenge – How to get that A\* Grade

RELEVANT FOR  
EDEXCEL

**A focus on aspects of AS and A2 Chemistry that allow development beyond the specification, includes  $^{13}\text{C}$  NMR**

Central London: Tuesday, 15 October 2013

Course Presenters: John Older & Mike Smith

### How will I benefit?

This workshop will examine the most difficult aspects of the A-Level course and look at how these might be integrated into teaching schemes. It will advise you how to equip your more able students with the necessary experience to tackle questions that require a deeper understanding of the most challenging topics for A-Level. It will:

- help you to prepare able students for the challenge of the A2 year including  $^{13}\text{C}$  NMR
- show you how to make the most of available resources for *Stretch and Challenge* exercises
- give examples of exam questions which students must feel able to answer confidently
- provide you with a range of sample questions to use for classroom and homework exercises

**Course fee:** £245 plus VAT  
(£235 if booked before 30 September 2013)

## Programme

9.45am	Registration and coffee
10.00am	<b>Where to start: AS homework that stretch the most able</b>
10.30am	<b>Equilibria, pH and buffers</b>
11.15am	Morning coffee
11.30am	<b>Getting the most out of mechanisms</b>
12.30pm	Lunch
1.30pm	<b>Thermodynamics, enthalpy, entropy and redox</b>
2.30pm	Afternoon tea
2.45pm	<b>Using data and knowledge</b>
3.15pm	<b>Analysis of mixtures, organic synthesis</b>
3.45pm	<b>Plenary</b>
4.00pm	Course ends

## How to Teach Theory of Knowledge Successfully

RELEVANT  
FOR IB

**A course for teachers new to the IB Diploma**

Central London: Thursday, 21 November 2013

NEW

Course Presenter: Ray Dexter

### How will I benefit?

This is a course designed for teachers new to teaching the TOK course on the IB Diploma programme. Ray will detail the level of knowledge required, offer tips on classroom activities and teaching & learning ideas that cover the Ways of Knowing and Areas of Knowledge. Most importantly, the course will give you the confidence and skills to deliver lessons which will allow your students to make excellent progress and improve their motivation and understanding of this core component of the IB Diploma.

The course provides specific detail as to what makes an outstanding TOK lesson. Ray will discuss opportunities, resources, audio-visual sources and schemes of work for interesting, as well as collaborative and computer-based activities to support independent learning and increase motivation. You will also get to network and share experience with other teachers in a similar position, and enjoy the opportunity to come away with a host of new ideas to enhance your own teaching. You will:

- focus on the fundamentals skills and principles required for a student to succeed on this very challenging course
- develop a scheme of work to deliver an exciting and purposeful programme
- gain confidence in your ability to be an outstanding TOK teacher

**Course fee:** £245 plus VAT  
(£235 if booked before 30 September 2013)

The course is not run on behalf of IBO, but is intended as an introductory, ideas-based course that can complement such courses.

## Programme

10.00am	Registration and coffee
10.15am	<b>Welcome, introduction and aims of the course</b>
10.30am	<b>Knowledge questions and the concept of personal knowledge and shared knowledge</b> <ul style="list-style-type: none"><li>• What do we mean by these terms and how do we develop these models so our students are happy with the ideas?</li></ul>
11.10am	Morning coffee
11.30am	<b>Ways of knowledge</b> <ul style="list-style-type: none"><li>• An in-depth look at the Ways of Knowledge - strategies for teaching and delivering lessons on each one</li><li>• Defining each one as outlined by the Diploma programme, and framing ideas into knowledge questions</li></ul>
12.15pm	<b>Areas of Knowledge (1): Strategies for delivering great lessons on the following AOK: Mathematics, Natural Sciences, Human Sciences, History</b>
1.00pm	Lunch
1.45pm	<b>Areas of Knowledge (2): Indigenous Knowledge Systems, Religious Knowledge Systems, The Arts, Ethics</b>
2.45pm	<b>The assessment: Strategies for the TOK essay preparation, and marking. The TOK presentation – preparation and idea generating tips</b>
3.30pm	<b>Resources for a TOK teaching course</b>
4.00pm	Course ends



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## Inspiring Approaches to Difficult Topics for A-Level and IB Chemistry

Central London: Thursday, 17 October 2013

RELEVANT FOR ALL MAJOR SPECIFICATIONS

NEW

Course Presenters: **Martin Bluemel (MB), Christopher Foster (CF) & Tim Jolliff (TJ)**

### How will I benefit?

Martin, Chris and Tim will provide a range of approaches to help you to transform challenging chemical concepts and principles from the most difficult into the most inspiring. They will explore ideas, activities and teaching techniques to increase student engagement, improve understanding and help your students to make connections across all areas of Chemistry. The course will focus on improving motivation/learning and ultimately results through increased understanding of underlying principles rather than rote learning.

Included is a 'Difficult Topics Panel' discussion to give you the opportunity to share best practice approaches and ask our expert presenters for help with any topic or issue which your students have.

- Develop your own understanding of how to teach the most difficult concepts such as **organic mechanisms, entropy, free energy** and **electrode potentials**
- Explore new approaches and teaching methods to increase students engagement and motivation
- Gain ideas and activities to get these difficult concepts across
- Discuss techniques to develop the students' underlying understanding rather than just 'learning the rules'
- Teach **organic chemistry** with less emphasis on rote learning allowing your students to tackle calculations with more confidence

**Course fee:** £245 plus VAT  
(£235 if booked before 30 September 2013)

## Programme

- 9.45am** Registration and coffee
- 10.00am** **Entropy, the Second law, Free energy and Electrode potentials subject update and how to teach them (TJ)**
- 11.15am** Morning coffee
- 11.30am** **Approaches to teaching chemical calculations: What do students struggle with and how to teach this better (MB)**
- Giving students confidence
  - Strategies to train students to use the information in the question
- Martin Bluemel*
- 12.15pm** **Organic Chemistry: Giving students the bigger picture (MB)**
- Understanding and applying principles
  - Activities and resources to make the concepts more memorable
- 1.00pm** Lunch
- 2.00pm** **Inspiring approaches to improve motivation, understanding of concepts and challenge all your learners (CF)**
- How to improve student motivation and engagement
  - Help your students take ownership of their learning
  - Encourage active, resourceful and independent learners
- 3.00pm** **Difficult Topics Panel (MB, CF & TJ)**
- 'Question time' style discussion of topics, teaching approaches and student hang-ups to share best practice approaches – a great opportunity for you to ask your own questions of our expert panel.
- Martin, Chris & Tim*
- 3.45pm** Course ends

## How to Lead an Outstanding Department

**For Heads, or aspiring Heads, of Science, Chemistry, Biology and/or Physics**

Central London: Thursday, 7 November 2013

RELEVANT FOR ALL MAJOR SPECIFICATIONS

NEW

Course Presenter: **Rob King**

### How will I benefit?

Rob will provide practical advice, ideas and strategies to support those who are either presently Heads of Department, or aspiring to be, for Science, Chemistry or individual sciences. You will cover the key issues affecting the performance of your department, including how to be a more effective leader and manager, and how to lead the team successfully through inspection. The course will be interactive and there will be plenty of opportunity to evaluate key factors affecting departmental performance and share your own experience and ideas.

**Course fee:** £245 plus VAT  
(£235 if booked before 30 September 2013)

*Fantastic! Very useful materials - will be using them straight away!*  
*Lee Lewin, CATS College Cambridge*

## Programme

- 9.45am** Registration, coffee and starter activities
- 10.00am** **What makes a good Head of Science or Chemistry?**
- Management and leadership
  - Responsibilities and demands of the role
  - Prioritising and time management
  - Effective meetings
  - Managing change
  - Career progression and staff development
- 11.15am** Morning coffee
- 11.30am** **Managing people**
- Dealing with challenging scenarios
  - Communication
  - Personnel issues
- 12.30pm** Lunch
- 1.30pm** **Raising the status of the department both within the school and externally**
- Successful marketing
  - Developing links with industry/Universities etc.
  - Developing links with other schools
- 2.45pm** Afternoon tea
- 3.00pm** **Monitoring quality and preparing for inspection**
- Department documentation
  - Health and Safety issues
  - Self evaluation
  - The successful department
  - Taking the department forward
- 4.00pm** **Discussion and feedback**
- 4.15pm** Course ends





## Improving Student Performance at AS and A2 Chemistry

RELEVANT FOR ALL  
MAJOR  
SPECIFICATIONS

Central London: Wednesday, 20 November 2013

Course Presenters: **Mike Smith & John Older**

### How will I benefit?

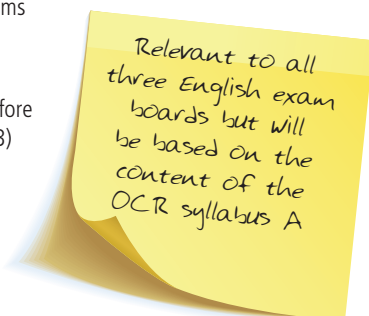
This course is aimed at all teachers of Chemistry and is designed to help to develop the potential of all your students. It will examine:

- techniques to maximise the performance of all students
- how to stretch your most able students

The course will review exam performance and examine in detail the most challenging topics. You will cover how to:

- integrate different learning styles to improve lessons
- make Chemistry lessons fun but also extremely productive
- develop knowledge and skills at AS and A2
- prepare students to tackle exams with confidence

**Course fee:** £245 plus VAT  
(£235 if booked before  
30 September 2013)



### Programme

- 9.45am** Registration and coffee
- 10.00am** **Common Errors**
- Year in year out many students make the same mistakes when answering questions
  - Techniques to eliminate the common errors
  - Making full use of the information given in questions
- 10.45am** **"Stretch" Questions**
- How to use new information given in questions to construct answers of appropriate depth outside the specification
  - How to approach extended calculations
- 11.15am** Morning Coffee
- 11.30am** **Organic Chemistry**
- How to get students to love it and enjoy writing mechanisms
- 12.15pm** **Environmental Chemistry**
- Ways of integrating environmental issues into mainstream Chemistry
- 12.45pm** Lunch
- 1.45pm** **Physical Chemistry**
- Equilibrium
  - pH calculations
  - Enthalpy & Entropy
  - Writing ionic equations
  - SEP & Redox reactions
- 2.45pm** Afternoon tea
- 3.00pm** **Spectroscopy**
- A brief review of MS, IR,  $^1\text{H}$  NMR &  $^{13}\text{C}$  NMR
  - A methodology for identification of an unknown chemical when provided with several spectra
- 3.45pm** **Plenary**
- 4.00pm** Course ends

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## New to Teaching A-Level Chemistry

Central London:  
Wednesday, 27 November 2013

RELEVANT FOR  
AQA, OCR & EDEXCEL

NEW

Course Presenter: **Neil Dixon**

### How will I benefit?

This course will be of benefit to all new, returning or inexperienced teachers of Chemistry, and experienced GCSE Chemistry teachers who are keen to boost their confidence in teaching the most challenging topics at A-Level.

Experienced and inspiring tutor, Neil Dixon, will provide effective strategies to teach the content well, keep your students engaged, and not spend your life planning lessons and creating new resources.

You will be asked to audit your confidence in specific areas of the syllabus and will then work in small groups during the day to allow for tailored peer support where possible. Participants will then demonstrate their improved understanding by completing exam style questions!

Throughout all the sessions, you will:

- learn and share top tips and best practice ideas that have been proven in the classroom to help students make progress in their understanding and performance
- be introduced to a large number of resources to support your teaching and your own Continuing Professional Development
- have the opportunity to network with other teachers and share ideas

**Course fee:** £245 plus VAT  
(£235 if booked before 30 September 2013)

## Programme

- 10.00am** Registration and coffee
- 10.15am** **Teaching the mole**
- A generic method for quantitative calculations
  - Suitable resources for improving students' practical skills
- 10.30am** **Energising energetics lessons**
- A strategic approach to using Hess' Law
  - Calorimetry
  - Bond enthalpy calculations
- 11.00am** Morning coffee
- 11.15am** **Reducing the headaches in redox**
- Oxidation states
  - Electrochemical cells and reaction direction
- 11.45am** **Helping with halogens**
- Applying redox principles
- 12.00pm** **Being kind with kinetics**
- Deducing and using rate equations
- 12.30pm** Lunch
- 1.15pm** **Striking a balance with equilibria**
- Calculations involving K<sub>c</sub>
- 1.45pm** **Making sense of mechanisms**
- It's not just about memorising them, but that really does help!
- 2.15pm** Afternoon tea and further questions
- 2.30pm** **Playing with Lego: acids and bases**
- pH calculations
  - Explaining how buffers work
- 3.00pm** **Strategic structure determination**
- Using a logical approach when interpreting Mass Spec, IR and NMR
- 3.30pm** **Review and forward planning**
- 4.00pm** Course ends

## Look out for our other CPD Events

### Theory of Knowledge and its Application in IB Biology: Strategies for Success in Teaching and Learning

Central London: Tuesday, 19 November 2013

RELEVANT  
FOR IB

### Lessons Learned from the AQA (A) 2013 AS and A2 Physics Examinations and Practical Assessments

Central London: Friday, 18 October 2013

RELEVANT  
FOR  
AQA A

### A-Level Biology: Raising the Standard through *Stretch and Challenge*

Central London: Wednesday, 16 October 2013

RELEVANT FOR ALL  
MAJOR  
SPECIFICATIONS

### Lessons Learned from the 2013 AS and A2 Physics Exams

Central London: Wednesday, 16 October 2013

RELEVANT FOR OCR  
SPECIFICATION A

### New to Teaching AS Biology

Central London: Thursday, 17 October 2013

RELEVANT FOR ALL  
MAJOR  
SPECIFICATIONS

### Inspiring Approaches to Difficult Topics for A-Level and IB Physics

Central London: Friday, 29 November 2013

RELEVANT FOR  
A-LEVEL AND IB

### AS/A2 Biology: Practical Skills Workshop

Central London: Thursday, 17 October 2013

RELEVANT FOR ALL  
MAJOR  
SPECIFICATIONS

### Teaching AS and A2 Physics for the First Time

Central London: Thursday, 17 October 2013

RELEVANT FOR ALL  
MAJOR  
SPECIFICATIONS





## iPads in Science

RELEVANT FOR  
KS3/4/5

### How to use iPads effectively to improve Teaching and Learning in Science

Central London: Wednesday, 6 November 2013

NEW

Course Presenters: Emma Sealey & Ed Walsh

#### How will I benefit?

This active, hands-on workshop will show you how to make the most of this highly motivational tool to engage students in Science and support a range of curricular outcomes including:

- researching ideas and evidence
- developing Higher Order Thinking
- capturing and analysing data, and making this meaningful
- constructing and sharing explanations
- improving assessment and workflow

Expert tutors, Emma Sealey and Ed Walsh will provide a wealth of practical advice for immediate application in the classroom, and will both demonstrate, and get you to try out, a range of apps to enthuse your students and help you with your own planning and assessment. You will:

- learn how students' scientific ideas can be developed and shared through blogging
- see how students can capture ideas and develop them into explanations
- find out how students can share work effectively, offering and receiving feedback
- try assessment tools out that gather feedback on progress and inform lesson planning

A list of applications required for this course can be found on our website at [www.philipallanupdates.co.uk](http://www.philipallanupdates.co.uk)

Course fee: £245 plus VAT  
(£235 if booked before 30 September 2013)

## Programme

- 9.45am** Registration and coffee  
• Starter activities
- 10.00am** **What will an iPad do in a classroom?**  
• Developing an overview of capabilities, potential, and changes in pedagogical approach
- 10.30am** Morning coffee
- 10.45am** **The iPad as a drafting tool**  
• How ideas can be developed and refined more effectively to produce high quality scientific explanations that show progress being made
- 11.45am** **The iPad as a laboratory aid**  
• Getting your students to capture and interpret scientific evidence
- 12.30pm** Lunch
- 1.30pm** **The iPad as teacher's aid**  
• A range of apps to help you to assess pupil progress and inform your lesson planning based on easily captured evidence
- 2.00pm** **The iPad as a simulator**  
• Virtual situations to stimulate Higher Order Thinking and problem solving
- 2.30pm** **Models of implementation**  
• How to avoid the pitfalls  
• The implications for technical support, finance and CPD as well as planning Teaching and Learning
- 3.00pm** Afternoon tea
- 3.15pm** **Action planning**  
• Developing and sharing ideas about next steps to help you continue to progress when back in school
- 4.00pm** **Discussion and feedback**
- 4.15pm** Course ends



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## HOW TO BOOK



Contact Darren, Zoe or Hayley on **01869 336410** quoting the details requested in this booking form



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By email quoting the details requested in this booking form to **conferences@philipallan.co.uk**



By post, by completing and returning the form on this page to **Philip Allan Events, Market Place, Deddington, Oxfordshire OX15 0SE**

Once your booking has been made, a full VAT invoice will be sent to you (subject to availability). Our Terms and Conditions are available on our website. You will also receive an email containing a copy of our Terms and Conditions.

Tickets and final details are emailed approximately 2 weeks before the date of the event.

## INVOICE DETAILS

Delegate name(s)
Job title(s)
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Establishment name
Address
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Telephone
Date
Please specify any special dietary requirements
(e.g. vegetarian, vegan, gluten-free)
Purchase order number

\*Your email address is required so we can send you information about your event. We will also register you to receive e-updates about forthcoming events and publications from Philip Allan and Hodder Education.

Please tick if you **do not** wish to receive e-updates ☐

## ANY QUESTIONS?

Contact Darren, Zoe or Hayley on **01869 336410** (at local rates).

## CPD EVENT BOOKING FORM

**Course fee** (per head plus VAT) **£245** (£235 if booked before 30 September 2013)

Event/ Presenter(s)	Location	Date	Number of places
<b>RELEVANT FOR EDEXCEL</b>			
<b>Stretch and Challenge – How to get that A* Grade</b> John Older & Mike Smith	Central London	15.10.13	
<b>RELEVANT FOR IB</b>			
<b>How to Teach Theory of Knowledge Successfully</b> Ray Dexter	Central London	21.11.13	
<b>RELEVANT FOR ALL MAJOR SPECIFICATIONS</b>			
<b>Inspiring Approaches to Difficult Topics for A-Level and IB Chemistry</b> Martin Bluemel (MB), Christopher Foster (CF) & Tim Jolliff (TJ)	Central London	17.10.13	
<b>How to Lead an Outstanding Department</b> Rob King	Central London	07.11.13	
<b>Improving Student Performance at AS and A2 Chemistry</b> Mike Smith & John Older	Central London	20.11.13	
<b>RELEVANT FOR AQA, OCR &amp; EDEXCEL</b>			
<b>New to Teaching A-Level Chemistry</b> Neil Dixon	Central London	27.11.13	
<b>RELEVANT FOR KS3/4/5</b>			
<b>iPads in Science</b> Emma Sealey & Ed Walsh	Central London	06.11.13	
Total			

## FEES

The fee for these events covers all written materials, three-course buffet lunch and refreshments. Should delegates have any specific dietary requirements please inform Customer Services on 01869 336410. A cancellation charge of £80 plus VAT will be incurred for any booking cancelled less than 3 weeks before the date of the event. The full fee is payable if you do not cancel your booking and do not attend. Full Terms and Conditions can be found at **www.philipallanupdates.co.uk**

