IFCC SPEAKERS BUREAU

You may choose from the following list of topics (or suggest a different topic) for the IFCC-Abbott VLP or any other educational programme that is being planned. The names of recommended speakers are given next to each topic. However, you may nominate your own speaker.

**Accreditation**

- ISO 15189 - Documentation, policies, plans, processes, procedures and records
- ISO 15189 - Documentation, policies, plans, processes, procedures and records
- ISO 15189 - Pre examination, examination and post examination processes
- ISO 15189 - Pre examination, examination and post examination processes
- ISO 15189 - Planning process and implementation
- ISO 15189 accreditation of medical testing laboratories
- ISO 22870 - POCT and responsibility of the laboratory
- ISO15189 Accreditation: costs and benefits
- Quality systems and clinical laboratory accreditation
- The assessment process

**Suggested Speakers**

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**Bone, Calcium and Vitamin D Metabolism**

- Biochemical markers of calcium and bone metabolism
- Vitamin D metabolism and impact on health
- Vitamin D metabolism, requirement and biological activity

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**Cancer**

- Basic informatics for molecular cancer profiling
- Cancer biomarkers
- Clinical applications of cancer molecular biomarkers
- Interpreting tumour marker results
- Implementing cancer molecular profiling
- Likelihood ratios - a more informative way of reporting laboratory results: studies with tumour markers
- PSA and other members of the kallikrein family
- Tumour marker reference intervals
- Understanding PSA refinements: age related reference intervals

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<td>PSA and other members of the kallikrein family</td>
<td>Prof. Eleftherios Diamandis (Canada)</td>
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Cardiovascular Biochemistry

- F/T PSA ratio and PSA doubling time
- Antioxidant properties of HDL are associated with Paraoxonase
- Assay-related issues in the measurement of cardiac troponins and natriuretic peptides
- Cardiac Biomarkers: an evidence based approach to utilization
- Cardiac markers
- Cardiac markers in chronic kidney disease
- Cardiovascular biomarkers
- Coronary heart disease biomarkers
- CRP and inflammatory markers
- Ischemia-modified albumin
- Linking hypertensive disorders of pregnancy to cardiovascular diseases in later life: what are the evidence and the clinical implications?
- Modification of HDL - Implication in cardiovascular disease
- Natriuretic peptide measurement: current use, future promise
- Novel biomarkers of cardiac risk and management
- Substrate specificities of human serum Paraoxonase and its implication in cardiovascular diseases
- The basics of cardiac biomarker interpretation
- The metabolic syndrome: linking hypertensive disorder of pregnancy to cardiovascular disease in later life
- Tyrosine oxidation products are detoxified by HDL-associated Paraoxonase: implication in Cardiovascular diseases

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<td>Prof. Mauro Panteghini (Italy)</td>
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<td>natriuretic peptides</td>
<td>Prof. Robert Christenson (USA)</td>
<td>English</td>
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<td>Prof. Fred Apple (USA)</td>
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<td>Dr. Paul Collinson (UK)</td>
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<td>Dr. Nader Rifai (USA)</td>
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Cerebrospinal Fluid

- CSF bilirubin, xanthochromia and detection of subarachnoid haemorrhage

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Chronic Kidney Disease

- Estimated GFR - the Australasian approach to early detection of kidney disease
- Estimating glomerular filtration rate from serum creatinine         | Prof. Christopher Florkowski (NZ) | English           | English             |
| measurements: analytical issues and standardisation programs         | Prof. Mauro Panteghini (Italy)  | Italian; English  | Italian; English    |

Clinical Usefulness of Analytes

- Clinical interpretation of laboratory tests
- Coenzyme Q10 - evidence base for a clinically useful analyte
- Is this assay clinically useful - the paradigm of natriuretic peptides
- What physicians do not know about laboratory tests

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<td>Prof. Donald Young (USA)</td>
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### Cytokines

- Cybernetics of cytokines and chemokines: pathophysiology and clinical applications
- Leptin and adiponectin in insulin resistance

### Diabetes, Insulin Resistance and Metabolic Syndrome

- Approved IFCC recommendation on reporting results for blood glucose
- Diabetes mellitus (markers, HbA1c, advanced glycation end products)
- Diabetic glucose monitoring in 2010: a testing odyssey implementation
- eA1G and the correlation of HbA1c and glucose
- HbA1c for screening and diagnosis of diabetes
- Inactivation of Paraoxonase by oxidants - implications in diabetes and atherosclerosis
- Laboratory assessment of insulin resistance
- Leptin and adiponectin in insulin resistance
- Microalbuminuria
- Paediatric obesity, prediabetes and metabolic syndrome
- Post-translational modification of proteins (glycation - glycoxidation - carbamylation)
- Self-monitoring of blood glucose
- The Diagnosis of Diabetes Mellitus
- The metabolic syndrome in youth and polymorphic genes
- The metabolic syndrome: linking hypertensive disorder of pregnancy to cardiovascular disease in later life
- The Role of Clinical Laboratory Practitioners in the Diabetes Multidisciplinary Team

### Ethics

- Law and ethics in laboratory medicine

### Evidence-Based Laboratory Medicine

- Cost-effectiveness in diagnostic guidelines
- Critical appraisal and quality of guidelines in laboratory medicine
- Critical appraisal of guidelines
- Critical appraisal of the literature
- Does a good AGREE Instrument score indicate good content validity for a guideline?
- Evidence in action - using evidence in practice
- Evidence-Based Laboratory Medicine: one to four day workshop
- Evidence-Based Laboratory Medicine: practical examples of benefit
- Evidence-Based Laboratory Medicine: principles and promise
cont Evidence-Based Laboratory Medicine

- Evidence-based monitoring
- General principles of evidence-based practice guidelines development in laboratory medicine
- Guideline development
- How to conduct a systematic review
- How to design evidence-based outcome studies in laboratory medicine
- How to read a paper
- Implementation and practice of guidelines
- Introduction to Evidence-Based Laboratory Medicine
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- Introduction to Evidence-Based Laboratory Medicine
- Making evidence-based guideline recommendations
- NACB evidence-based practice for POCT
- Question formulation
- Reflective testing
- Searching for the evidence
- Study design and quality of evidence for diagnostic tests
- Systematic reviewing in laboratory medicine
- The relationship between evidence-based medicine and quality management/accreditation of medical laboratories
- Theory of Evidence Based Laboratory Medicine, an overview
- What is the AGRE instrument and how can we use it?
- What is the AGRE instrument and how can we use it?
- What is the evidence base for what we report in laboratory medicine?
- Which study will answer my question best?

HbA1c

- Biochemistry, Hemoglobin Variants, Analytical Methods, Standardisation, EQA/PT programmes, Quality targets for monitoring-diagnosis-screening
- HbA1c for screening and diagnosis of diabetes

Hypertension

- Hypertensive disorders of pregnancy: pathophysiology, and early prediction through biomarkers
- Linking hypertensive disorders of pregnancy to cardiovascular diseases in later life: what are the evidence and the clinical implications?
- The metabolic syndrome: linking hypertensive disorder of pregnancy to cardiovascular disease in later life
- **Immunochemistry**
  - Immunochemical methods: what has to be considered when using immunochemical methods

- **In Vitro Fertilisation**
  - The laboratory support needed for an In Vitro Fertilisation Programme

- **Laboratory Management**
  - Basic guidelines for Total Quality Management and accreditation (ISO 15189)
  - Clinical Laboratory Information System. Practical approach for developing countries
  - Continuous quality improvement: Lean
  - Cost is more than meets the eye
  - Data mining as a laboratory management tool
  - Endorsing Quality NABL accreditation
  - Ensuring Quality of results (case studies included)
  - External Quality Assessments
  - Gap analysis - Pre survey self assessment
  - How to establish a quality system line with ISO 15189
  - How to manage an accredited laboratory
  - Improving the Efficiency of Clinical Laboratory Services
  - Instruments and reagents - Pre analytical workshop
  - Internal audits and complaints
  - Lab management, client satisfaction
  - Laboratory errors: striving for none
  - Laboratory Information Systems - The Basics
  - Laboratory Medicine: past, present and future
  - Laboratory Quality Control
  - Leadership and management
  - Managing laboratory workload to optimise clinical effectiveness
  - Measurement uncertainty
  - Method comparison
  - Monitoring and non conforming event management
  - Monitoring and non conforming event management
  - Optimising laboratory efficiency
  - Personal, staff procedures and training
  - Post-analytical Quality
  - Preanalytic Errors
  - Pre-analytical Requirements for Quality
  - Provision of Laboratory Services for a Multiethnic Population
  - Strategic Planning and Gap Analysis

- **Immunochemistry**
  - Suggested Speakers: Prof. Paivi Laitinen (Finland)
  - Language for talk: Finnish; English
  - Language for slides: Finnish; English

- **In Vitro Fertilisation**
  - Suggested Speakers: Prof. Jocelyn Hicks (USA)
  - Language for talk: English; French; Spanish; English
  - Language for slides: Spanish; English

- **Laboratory Management**
  - Suggested Speakers: Dr. Elizabeth Frank (India)
    - Language for talk: English
    - Language for slides: English
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EMD - IFCC Speakers Bureau – Last update: January 2015

5/9
**Laboratory Management**  
- Quality indicators
- Quality Indicators and Continuous Quality Improvement
- Quality issues in the laboratory
- Role of Lean, 6Sigma, 5S and other tools in process improvement
- Safety needs for the clinical laboratory
- Strategic and financial planning for the clinical laboratory
- The role of Proficiency testing in quality of the analytical process
- Understanding extreme results and the definition critical limits
- Vision and Strategic Planning

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<td>Dr. John Krahn (Canada)</td>
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<td>Prof. Paivi Laitinen (Finland)</td>
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**Lipids**  
- What physicians do not know about laboratory tests
- Intestinal lipid absorption and metabolism
- Intestinal lipid absorption and metabolism
- Role of drugs and lifestyle in the management of dyslipidaemia

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**Mass Spectrometry**  
- Mass spectrometry in the endocrinology laboratory
- Mass spectrometry in the therapeutic drug monitoring (TDM) laboratory
- Mass spectrometry in the toxicology laboratory

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**Molecular Biology**  
- From macro to nanotechnology: the future of laboratory medicine
- Iron metabolism genes and molecular diagnostics
- Non-invasive prenatal diagnosis by circulating nucleic acid analysis
- Quality assurance and molecular diagnosis

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**Nutrition**  
- Data mining as a laboratory management tool
- Nutrition of the premature and term neonate
- The role of the laboratory in nutritional support
- The role of the laboratory in nutritional support
- Understanding extreme results and the definition critical limits

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<td>English</td>
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<tr>
<td>Prof. Edgard Delvin (Canada)</td>
<td>French; English</td>
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<td>Prof. Ian Young (UK)</td>
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<td>Prof. Ian Young (UK)</td>
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<tr>
<td>Dr. Ken Sikaris (Australia)</td>
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**Obesity**

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<tr>
<th>Suggested Speakers</th>
<th>Language for talk</th>
<th>Language for slides</th>
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</table>
- Obesity: an ever growing problem!
- Understanding laboratory measurements of folate and their clinical importance
- Understanding vitamin B12 through measuring active B12

**Oxidative Stress**
- Antioxidants - diet or supplements?
- Antioxidants and free radicals in health-nutrition and radio-protectors
- Laboratory assessment of oxidative stress
- Role of oxidative stress in disease (specifically atherosclerotic cardiovascular disease, macular degeneration or pre-eclampsia)

**Suggested Speakers**

**Language for talk | Language for slides**

- Prof. Ian Young (UK) | English | English
- Dr. Elizabeth Frank (India) | English | English
- Prof. Ian Young (UK) | English | English
- Prof. Ian Young (UK) | English | English

**Paediatric and Adolescent Clinical Biochemistry**
- Adolescents: A challenge for society and the laboratory
- Paediatric clinical chemistry
- Paediatric obesity, prediabetes and metabolic syndrome
- Point of care testing in the paediatric setting
- Point of care testing in the paediatric setting

**Suggested Speakers**

**Language for talk | Language for slides**

- Prof. Jocelyn Hicks (USA) | English | French; Spanish; English
- Prof. Jocelyn Hicks (USA) | English | French; Spanish; English
- Prof. Khosrow Adeli (Canada) | English | English
- Prof. Jocelyn Hicks (USA) | English | French; Spanish; English
- Prof. Jocelyn Hicks (USA) | English | French; Spanish; English

**Personalized Medicine**
- Technologies for personalized medicine

**Suggested Speakers**

**Language for talk | Language for slides**

- Prof. Paolo Fortina (USA) | Italian; English | Italian; English

**Pharmacogenetics**
- Clinical implementation of pharmacogenetics
- Pharmacogenetics of cytochrome P450 enzymes
- Pharmacogenetics for solid organ transplantation management
- Pharmacogenetics of tamoxifen

**Suggested Speakers**

**Language for talk | Language for slides**

- Prof. Ron van Schaik (The Netherlands) | Dutch; English | Dutch; English
- Prof. Ron van Schaik (The Netherlands) | Dutch; English | Dutch; English
- Prof. Ron van Schaik (The Netherlands) | Dutch; English | Dutch; English
- Prof. Ron van Schaik (The Netherlands) | Dutch; English | Dutch; English
- Prof. Khosrow Adeli (Canada) | English | French; Spanish; English
- Prof. Jocelyn Hicks (USA) | English | French; Spanish; English

**Point of Care Testing**
- Approved IFCC recommendation on reporting results for blood glucose
- Benefits and management of point of care testing
- Management & continuous quality improvement of point of care testing
- NACB evidence-based practice for POCT
- POCT external quality assurance programs
- Point of care testing in the paediatric setting
- Point of care testing in the paediatric setting

**Suggested Speakers**

**Language for talk | Language for slides**

- Dr. Ellis Jacobs (USA) | English | English
- Dr. Ellis Jacobs (USA) | English | English
- Dr. Ellis Jacobs (USA) | English | English
- Dr. Ellis Jacobs (USA) | English | English
- Dr. Ellis Jacobs (USA) | English | English
- Dr. Ellis Jacobs (USA) | English | English
- Prof. Khosrow Adeli (Canada) | English | French; Spanish; English
- Prof. Jocelyn Hicks (USA) | English | French; Spanish; English
• Point of Care Testing: What is the evidence that patients benefit?  
  Prof. Robert Christenson (USA)  
  English  

• Self-monitoring of blood glucose  
  Prof. Sverre Sandberg (Norway)  
  Norwegian; Danish; Swedish; English  

• Types & values of internal quality controls in POCT  
  Dr. Ellis Jacobs (USA)  
  English  

• ISO 22870 - POCT and responsibility of the laboratory  
  Dr. Herbert Stekel (Austria)  
  German; English  

Pregnancy  

Suggested Speakers  
  Prof. Jean-Claude Forest (Canada)  
  French; English  

Language for talk  
  Language for slides  
  French; English  

• Hypertensive disorders of pregnancy: pathophysiology, and early prediction through biomarkers  
  Prof. Jean-Claude Forest (Canada)  
  French; English  

• Linking hypertensive disorders of pregnancy to cardiovascular diseases in later life: what are the evidence and the clinical implications?  
  Prof. Jean-Claude Forest (Canada)  
  French; English  

• Screening for Trisomy 21 during pregnancy: is it possible to do better?  
  Prof. Jean-Claude Forest (Canada)  
  French; English  

• The metabolic syndrome: linking hypertensive disorder of pregnancy to cardiovascular disease in later life  
  Prof. Jean-Claude Forest (Canada)  
  French; English  

Proteomics  

Suggested Speakers  
  Prof. Eleftherios Diamandis (Canada)  
  English  

Language for talk  
  Language for slides  
  English  

Purines  

Suggested Speakers  
  Prof. Mathias Mueller (Austria)  
  German; English  

Language for talk  
  Language for slides  
  German; English  

Quality Assurance  

Suggested Speakers  
  Prof. Sverre Sandberg (Norway)  
  Norwegian; Danish; Swedish; English  

Language for talk  
  Language for slides  
  Norwegian; Danish; Swedish; English  

• Glucose and external quality assessment and post-analytical quality control  
  Dr. Ellis Jacobs (USA)  
  English  

• POCT external quality assurance programs  
  Dr. Ken Sikaris (Australia)  
  English  

• Post-analytical quality: assuring the quality of the laboratory report  
  Dr. Ken Sikaris (Australia)  
  English  

• Pre-analytical quality: benchmarks for laboratory quality  
  Dr. Ken Sikaris (Australia)  
  English  

• Quality issues in the laboratory  
  Dr. Ellis Jacobs (USA)  
  English  

• Types & values of internal quality controls in POCT  
  Dr. Ken Sikaris (Australia)  
  English  

• Understanding the clinical importance of measurement uncertainty and analytical goals  
  Dr. Ken Sikaris (Australia)  
  English  

• Understanding external quality assurance  
  Dr. Ken Sikaris (Australia)  
  English  

• Understanding internal quality control  
  Dr. Ken Sikaris (Australia)  
  English  

Reference Intervals  

Suggested Speakers  
  Dr. Ken Sikaris (Australia)  
  English  

Language for talk  
  Language for slides  
  English  

• Defining consensus reference intervals for laboratory networks
- Deriving reference intervals with indirect methods using laboratory patient data
- Laboratory reference intervals: current gaps and guidelines
- Understanding the impact of aging on reference intervals
- Understanding the impact of gender on reference intervals
- Understanding the impact of pregnancy on reference intervals

**Therapeutic Drug Monitoring / Toxicology**

- Suggested Speakers
  - Dr. Steven Soldin (USA)
  - Prof. Palvi Laitinen (Finland)
  - Dr. Alan Wu (USA)

- Language for talk
  - German; English
  - Finnish; English
  - English

- Language for slides
  - German; English
  - Finnish; English
  - English

**Thyroid disease**

- Genotyping approach to thyroid hormone resistance

**Traceability and Standardisation**

- Biological standardisation in laboratory medicine: influencing quality of patient care
- Implementation of metrological traceability in laboratory medicine
- Improving comparability of test results in clinical laboratories: implementation of reference measurement systems
- Standardisation in clinical enzymology
- Standardisation in laboratory medicine: traceability, reference systems and result comparability
- Standardization of Cardiac Troponin I: process and progress
- The JCTLM: objectives and impacts
- Theory of reference measurement systems and assays
- Traceability and the HbA1c Project

**Transplantation**

- Transplantation biochemistry

For any additional information on the IFCC Speakers Bureau, please contact the IFCC VLP Chair, Prof. Elizabeth Frank: anet21frank@gmail.com