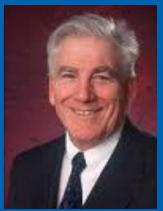




GRAHAM BEASTALL
PRESIDENT



HOWARD MORRIS VICE PRESIDENT



JOCELYN HICKS
PAST PRESIDENT



SERGIO BERNARDINI SECRETARY



BERNARD GOUGET TREASURER



THOMAS BRINKMANN CORPORATE REP.



LARRY KRICKA MEMBER



VANESSA STEENKAMP MEMBER



ULISSES TUMA MEMBER

1952-2012



Expansion of Full, Affiliate and Corporate Membership

Empowerment of Regional Federations

Focus on adding value to laboratory medicine

Creation of Task Forces for Young Scientists, Clinical Outcomes, Point of Care Testing and Reporting of HbA1c and Cardiac Markers

Introduction of Young Investigator award

Adoption of differential membership fee

Collaboration with WASPaLM and ILAC

Design and delivery of strategic plan 2009-2011 and 2012-2014 2012

2011

2010

2009

2008

2007

2006

2005

2004

2003

2002

2001



GH BEASTALL (UK)



Developed a Mission Statement and Vision for IFCC

Executive Board minutes sent to National Representatives and Past-Presidents

New programmes in partnership with Corporate Members, including Visiting Lecturer Programme (Abbott), Travel Scholarships (Roche), Distance Learning (Siemens) and a biannual Conference linking the Clinical Laboratory with the Clinician (OCD)

Increased the number of Full Members

Founded the African Federation of Clinical Chemistry

Introduced courses in Laboratory Quality Management to Africa

Consolidated the audit of annual accounts

2012

2011

2010

2009

2008

2007

2006

2005

2004

2003

2002

2001



JMB HICKS (US)



Office moved to Milan (2001)

New Web Site launched

Agreement signed with NCCLS

Ethics Task Force created

Global Disease Campaign started

Intellectual Property Policy published

JCTLM founded in collaboration with BIPM, CCQM, WHO, LAC, EDMA, AdvaMed and JACR

1st Award for Significant Contribution in Molecular Diagnostics made

2012

2011

2010

2009

2008

2007

2006

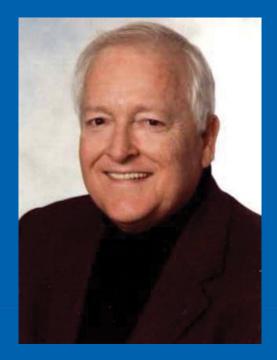
2005

2004

2003

2002

2001



M MÜLLER (AT)



New name – IFCC and Laboratory Medicine adopted Evidence Based Laboratory Medicine projects initiated

Communications and Publications Division created eJIFCC launched

Professional Scientific Exchange Programme started

1st Master Course held in La Plata

Accreditation Principle with WASPLaM published

Agreement signed with the Arab Federation of Clinical Biology

Agreement signed with CCLM

1st Award for Distinguished Contribution in Education made

1st IFCC/EDMA Award for Evidence of Usefulness of Laboratory Testing made

1999

1998

1997

1996

1995

1994

1993

1992

1991

1990

1989

1988

1987

1986



MJ MCQUEEN (CA)



Technical Secretariat moved to Nancy FR (1991)

Education and Management Division created

Congress and Conference Division created

Strategic Plan adopted

Agreements signed with FESCC, Colabiocli and Asian Pacific Federation

Agreement signed with IRMM (Reference Materials)

1st FCC/AVL (Roche) Award for Significant Advances in Critical Care Testing made



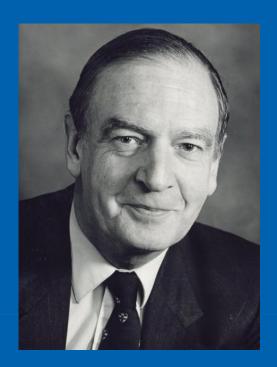
G SIEST (FR)



New structure of IFCC (1987): Divisions (Scientific, Education and Management, Communications and Publications), Committees and Working Groups created

Corporate Member Representatives appointed to EB

Journal of the IFCC launched



DS YOUNG (US)



Conference Committee created

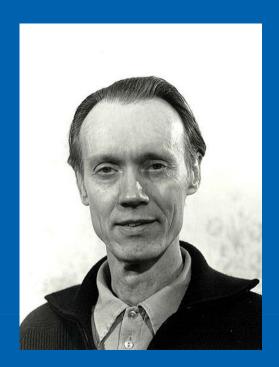
Visiting Lecture Programme initiated

1st General Conference held

1st Distinguished International Service Award (1990: Henry Wishinsky Award) made

Technical Secretariat established (1983: Copenhagen)

Official Logo adopted



R DYBKAER (DK)



Corporate Membership established
Scientific Committee created



J FREI (CH)

1952-2012



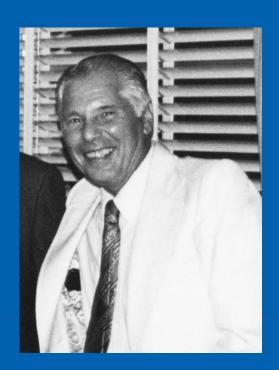
WHO: IFCC became NGO

1st Newsletter published

1st Annual Report published

1st Distinguish Clinical Chemist Award made

1st Recommendation on Nomenclature published

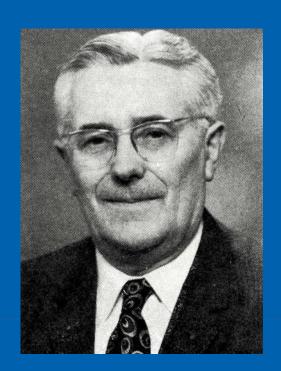


M RUBIN (US)

1952-2012



IFCC became independent from IUPAC
Committee on Standards and Expert Panels
created



JE COURTOIS (FR)



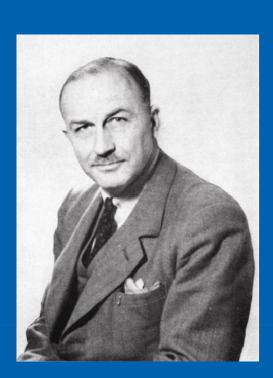
Foundation of IFCC within IUPAC



1952-2012



Consolidation of IFCC



EJ KING (UK)



- The mission of the Scientific Division (SD) is to advance the science of Clinical Chemistry and Laboratory Medicine by facilitating its application in clinical practice. The main goals of this Division are standardisation through the definition of metrologically-sound reference systems (reference methods, reference materials and networks of reference laboratories) and the definition of diagnostic strategies for new analytes.
- The SD initiates and manages projects with its own resources or through its Committees and Working Groups.
- Work is conducted in cooperation with other IFCC units and with relevant National and International Organisations. The SD ensures that each of its Committees and Working Groups are functioning under clear terms of reference together with an agreed schedule of activity.



Scientific division history

The Scientific Division

CS changed to Scientific Committee (SC), Robert Zender (CH) (First Chair); The concept of Working Groups introduced





Scientific division history

The Scientific Division

Creation of Expert Panels reflecting current needs (Instrumentation, pH and Blood Gases, Immunoassays, etc.)





Scientific division history

The Scientific Division

CS changed to Scientific Committee (SC), Robert Zender (CH) (First Chair); The concept of Working Groups introduced





Scientific division history

The Precursors

A Committee of Standards (CS), Martin Rubin (US) (First Chair), was established





Past sixty years at glance:

- Development of theme-oriented Committees and task-oriented Working Groups
- Publication of Recommendations and Guidelines
- Over 150 scientific publications in leading Laboratory Medicine journals
- Development of Reference Measurement Procedures
- Production of Reference Materials, in collaboration with national and international organisations (WHO, IRMM, NIBSC)
- Establishment of Reference Laboratory Networks
- Formal collaboration agreement with IRMM, CLSI and NIST
- Master Discussion Conferences (Bergmeyer Conference, Beckman Ortho Clinical Diagnostics Conference, etc.)



Diamond Accomplishments

Siekmann L, Weidemann G, Yoshida K, Ceriotti F.

2012	Magdal U, Dybkaer R, Olesen H.	Properties and units in the clinical laboratory sciences, Part XXIII. The NPU terminology, principles and implementation - a user's guide (Technical Report 2011) (IFCC-IUPAC). Clin Chem Lab Med. 2012 Nov 18;50(1):35-50.
2011	Schumann G., Klauke R., Canalias F., Bossert- Reuther S., Franck P.F.H, Gella F.J., Jörgensen P.J., Dongchon Kang7, Lessinger J.M., Panteghini M., Ceriotti F.	"IFCC primary reference procedures for the measurement of catalytic activity concentrations of enzymes at 37 8C. Part 9: Reference procedure for the measurement of catalytic concentration of alkaline phosphatase" Clin Chem Lab Med 2011;49(9):1439-1446.
2010	Helander A, Wielders JPM, Jeppsson JO, Weykamp C, Siebelder C, Anton RF, Schellenberg F, Whitfield JB.	Toward standardization of carbohydrate-deficient transferrin (CDT) measurements: II. Performance of a laboratory network running the HPLC candidate reference measurement procedure and evaluation of a candidate reference material Clin Chem Lab Med, 2010; 48: 1585-92.
2009	de Kieviet W., Frank E., Stekel H.	Essentials of Clinical Laboratory Management in Developing Regions - IFCC Series.
2008	Weykamp C, John WG, Mosca A, Hoshino T, Little R, Jeppsson J-O, Goodall I, Miedema K, Myers G, Reinauer H, Sacks DB, Slingerland R, Siebelder C.	The IFCC Reference Measurement System for HbA1c: A 6-Year Progress Report. Clin Chem 2008; 54: 240-8.
2007	Thienpoint IF, Beastall G, Christophides ND, Faix JD, Ieiri T, Jarrige V, Miller WG, Miller R, Nelson JC, Ronin C, Ross HA, Rottman M, Thijssen JH, Toussaint B.	Proposal of a candidate international conventional reference measurement procedure for free thyroxine in serum. Clin Chem Lab Med 2007; 45: 934-6.
	Duffus J, Bruunshuus I, Cornelis R, Dybkaer R, Nordberg M, Külpmann W.	Properties and Units in the Clinical Laboratory Sciences, Part XX. Properties and Units in Clinical and Environmental Human Toxicology. "Pure and Applied Chemistry 2007; 79: 87–152; eJIFCC 2007; 18(2)".
2006	Schumann G, Aoki R, Ferrero CA, Ehlers G, Férard G, Gella FJ, Jorgensen PJ, Kanno T, Kessner A, Klauke R, Kytzia HJ, Lessinger JM, Miller WG, Nagel R, Pauwels J, Schimmel H,	IFCC primary reference procedures for the measurement of catalytic activity concentrations of enzymes at 37 degrees C: Part 8. Reference procedure for the measurement of catalytic concentration of alpha-amylase [alpha-Amylase: 1,4-alpha-D-glucan 4-glucanohydrolase (AMY), EC 3.2.1.1]. Clin Chem Lab Med 2006; 44: 1146-55.



2005	Ben Rayana MC, Burnett RW, Covington AK, D'Orazio P, Fogh-Andersen N, Jacobs E, Kulpmann WR, Kuwa K, Larsson L, Lewenstam A, Maas AH, Mager G, Naskalski JH, Okorodudu AO, Ritter C, St John A.	Guidelines for sampling, measuring and reporting ionized magnesium in undiluted serum, plasma or blood. Clin Chem Lab Med 2005; 43:564-569.
	D'Orazio P, Burnett RW, Fogh-Andersen N, Jacobs E, Kuwa K, Kulpmann WR, Larsson L, Lewenstam A, Maas AH, Mager G, Naslalski JW, Okorodudo AO.	Approved IFCC Recommendation on Reporting Results for Blood Glucose (Abbreviated). Clin Chem 2005; 51:1573-1576.
2004	Dati F, Tate JR, Marcovina SM, Steinmetz A.	First WHO/IFCC Reference Reagent for Lipoprotein(a) for Immunoassay. IFCC Code Lp(a) SRM 2B. Clin Chem Lab Med 2004;42:670-6.
2003	Birken S, Berger P, Bidart JM, et al.	Preparation and characterization of new WHO reference reagents for human chorionic gonadotropin and metabolites. Clin Chem 2003;49:144-54.
2002	Siekmann L, Bonora R, Burtis CA, et al.	IFCC Primary Reference Procedures for the Measurement of Catalytic Activity Concentrations of Enzymes at 37 °C. Part 1 to 6. Clin Chem Lab Med 2002;40:631-48, 718-38.
	Jeppsson JO, Kobold U, Barr J, et al.	IFCC Reference Method for the measurement of HbA1c in human blood. Clin Chem Lab Med 2002;40:78-89.
2001	Panteghini M, Gerhard W, Apple FS, Dati F, Ravkilde J, Wu AH.	Quality specifications for cardiac troponin assays. Clin Chem Lab Med 2001;39:174-8.
2000	Müller MM.	Implementation of Reference Systems in Laboratory Medicine. Clin Chem 2000:1907-9.
1999	Panteghini M, Apple FS, Christenson RH, Dati F, Mair J, Wu AHB.	Use of biochemical markers in acute coronary syndromes. Clin Chem Lab Med 1999;37:687-93.
1998	Finke A, Kobold U, Hoelzel W, Weykamp C, Miedema K, Jeppsson JO.	Preparation of a candidate primary reference material for the international standardisation of HbA1c determinations. Clin Chem Lab Med 1998;36:299-308.
1994	Whicher JT, Ritchie RF, Johnson AM, et al.	New International Reference Preparation for Proteins in Humas Serum (RPPHS).Clin Chem 1994;40:934-8.



1991	Marcovina SM, Albers JJ, Dati F, Ledue TB, Richie RF.	IFCC Standardization Project for Measurement of Apolipoproteins A-I and B. Clin Chem 1991;37:1676-82.
1987	Solberg HE.	Approved Recommendation (1986) on the Theory of Reference Values. Part 1. The Concept of Reference Values. J Clin Chem Clin Biochem 1987;25:337-42, Clin Chim Acta 1987;165:111-8, Ann Biol Clin 1987;45:237-41.
	Maas AHJ, Weisberg HF, BurnettRW, Mueller-Plathe O,Wimberley PD, Zijstra WG, Durst RA, Siggaard-Andersen O.	Approved IFCC Method. Reference Method (1986) for pH Measurement in Blood. J Clin Chem Clin Bioch 1987;25:281-9, Clin Chim Acta 1987;165:97-109, Ann Biol Clin 1987; 45:229-36.
1984	Siest G, Galteau MM, Malya PAG, Tryding N, Delwaide P, Salway JG, Tognoni G.	Document with a Proposal for an IFCC Recommendation. Drug Effects in Clinical Chemistry. Part 1. The Basic Concepts. J Clin Chem Clin Biochem 1984;22:271-4.
1980	Hobbs JR, Harboe M, Alper C, Johansson BG.	The Human Serum Standard IFCC 74/1. J Clin Chem Clin Biochem 1980;18:99-103.
	Bowers GN, Bergmeyer HU, Horder M, Moss DW.	Approved Recommendation (1978) on IFCC Methods for the Measurement of Catalytic Concentration of Enzymes. Part 1. General Considerations Concerning the Determination of an Enzyme in the Blood Serum or Plasma of Man. J Clin Chem Clin Bioch 1980;18:89-95, Clin Chim Acta 1979;98:163F-74F.
1979	Dybkaer R.	Approved Recommendation (1978). Quantities and Units in Clinical Chemistry. J Clin Chem Clin Biochem 1979;17:807-21.
1978	Buttner J, Borth R, Boutwell JH, Broughton PMG, Bowyer RC.	Approved Recommendation (1978) on Quality Control in Clinical Chemistry. Part 1. General Principles and Terminology. J Clin Chem Clin Biochem 1980;18:69-77.



The Education and Management Division (EMD) fosters educational activities and managerial skills. The Divisional activities are currently conducted by Committees, Working Groups and Special Projects.

EMD Mission Statement

EMD provides IFCC members and the health-care community with education relevant to Clinical Chemistry and Laboratory Medicine, directed at scientific, management and clinical issues.



Education and Management division history

The Precursors

A new structure with Executive Committee (EC) and Committees is set





Education and Management division history

The Precursors

The Education and Management Division mandate was expanded to include management issues





Education and Management division history

The Precursors

The Education and Management Division was launched





Education and Management division history

The Precursors

The Committee on Education and Teaching evolved in Education Committee





Education and Management division history

The Precursors

Martin Rubin (US) (First Chair)

The Committee on Education and Teaching, was established





Diamond Accomplishments

2012		Quality of Management & Quality of Analysis A Handbook for developing Countries Jointly Developed By C-CLM and C-AQ of the EMD.
2011		DQCML Scholarships to attend the XXI International congress of Clinical Chemistry and Laboratory Medicine -ICCCCLM) in Berlin, May 15-19.
2010		Argentina, Paraguay and Uruguay: workshops and lectures offered by the Committee for Evidence-Based Laboratory Medicine (C-EBLM).
	POSITION PAPER Vasikaran S, Eastell R, Bruyere O, Foldes AJ, Garnero P, Griesmacher A, McClung M, Morris HA, Silverman S, Trenti T, et al.	Markers of bone turnover for the prediction of fracture risk and monitoring of osteoporosis treatment: a need for international reference standards. Osteoporosis International 2010; 22: 391-420.
2009		Sri Lanka and Macedonia: Workshops on Clinical Interpretation, organized by the Committee on Analytical Quality (C-AQ).
		Syria: Workshop on Molecular Biology, organized by the Committee on Clinical Molecular Biology Curriculum (C-CMBC).
2007		Course on Flow Cytometry.
	Hill P, Uldall A, Wilding P.	Fundamentals for External Quality Assessment (EQA). Monograph, IFCC 1996.
2005		First Evidence Based Laboratory Medicine Course, Budapest (HU).
2003	· -	First Clinical Molecular Biology Course, Milan (IT).
2001	Allen LC, Dominiczak MH, Pulkki K, Pazzagli M.	Clinical Case Material for Teaching Clinical Chemistry and Laboratory Medicine. Clin Chem Lab Med 2001; 39:875-889.
1999		First Master Course in La Plata (AR).
2001	Allen LC, Dominiczak MH, Pulkki K, Pazzagli M.	Clinical Case Material for Teaching Clinical Chemistry and Laboratory Medicine. Clin Chem Lab Med 2001; 39:875-889.



1999		First Master Course in La Plata (AR).	
1997	Sandberg S, Oosterhuis W, Freedman D, Kawai T.	Systematic reviewing in laboratory medicine. Position paper. JIFCC 1997; 9:154-155.	
	Bruns D.	Reporting diagnostic accuracy. Clin Chem 1997; 43:2211.	
		Launch of Visiting Lecturer Programme.	
1996	Pannal P, Marshall W, Jabor A, Magid E.	A Strategy to Promote the Rational Use of Laboratory Tests. JIFCC 1996; 8:16-19.	
	Mayer M, Heikkinen R, Orntoft T.	Laboratory Cost Management, JIFCC 1996; 8:20-21.	
	Hill P, Uldall A, Wilding P.	Fundamentals for External Quality Assessment (EQA). Monograph, IFCC 1996.	
1993	Burnett D.	Laboratory Accreditation. An Overview.JIFCC 1993.5/4;146-151	
1990	Magid E.	Rational Use of Clinical Laboratory Data. JIFCC 1990.2(1);20-25.	
1989	de Cediel N, Fraser CG, Doem A, Josefsson L, Worth HGJ, Zinder O.	Guidelines (1988) for Training in Laboratory Management. J Clin Chem Clin Biochem 1989.27;393-401,Clin Chim Acta 1989. 185;S1-S14,Ann Biol Clin 1989.47;291-298.	
1985	Schwartz MK, de-Cediel N, Curnow DH, Fraser CG,Porter CJ, Worth HGJ, Zinder O.	Document with a proposal for an IFCC Recommendation. Definition of terms certification, licensure and accreditation clinical chemistry. J Clin Chem Clin Biochem 1985,23;899-901.	
1975	Rubin M, Lous P.	The Education and Training of Personnel for Clinical Chemistry. J Clin Chem Clin Biochem 1975, 13;465-470.	



Assisting developing countries is a priority.

One of the critical needs of those of our Member Societies that qualify as "developing countries" is improvement of analytical results.

The EMD has developed a strategic plan to show how this goal can best be reached and has strengthened the IFCC Visiting Lecturer programme and our Professional Exchange Programmes, differentiating them as:

- PSEP: Professional Scientific Exchange Programmes
- PMEP: Professional Management Exchange Programmes.

These programmes are important in helping developing nations learn about new and better approaches to our discipline.



- The aims of the Communications and Publications Division (CPD) are to provide world-wide communications on the work of the IFCC to clinical laboratory scientists, physicians and health policy-makers, and to provide continuing education materials and services in printed and electronic forms. A major focus of CPD has been the promotion of both the IFCC organization and the discipline of clinical chemistry internationally and to coordinate PR activities of the various IFCC units.
- The IFCC website (www.ifcc.org) is a portal to international resources for laboratory medicine. Already in place are email links with the secretariat, links to IFCC member societies, links to corporate members, a scientific meeting database, an interactive address list, continuing education materials, the Ibero-americano corner, and the IFCC annual report.
- The Division publishes the eJournal of the International Federation of Clinical Chemistry (eJIFCC) and an IFCC newsletter on the web. IFCC news and scientific documents are also published in formal collaborations with Clinical Chemistry and Laboratory Medicine (CCLM) and other publishers, as are educational tools including scientific monographs. Translations of important IFCC documents into languages other than English are also published.



Communications & publications division history

Communications & publications division history

Creation of Committee on Internet and e-Learning, Chair: Vervaart P (AU)

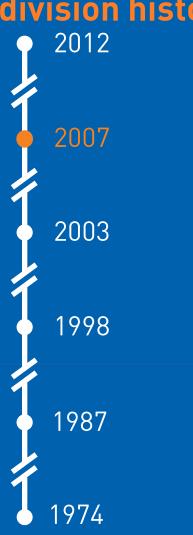




Communications & publications division history

Communications & publications division history

Creation of Committee on Public Relations, Chair: Adeli K (CA)





Communications & publications division history

Communications & publications division history

PD becomes Communications and Publications Division (CPD)
Gouget B (FR), first chairman of CPD





Communications & publications division history

The Precursors

Publications Committee Saris N E (FI) Editor of documents





Diamond Accomplishments

IFCC Scient	IFCC Scientific Publications				
1998	Agreement with Clinical Chemistry and Laboratory Medicine (CCLM) - Walter de Gruyter and Co				
1989	Translation in Spanish of the IFCC recommendations, 1978 - 1983				
1984	Book "IFCC recommendations, 1978-1983"				
1956	Collaboration with Clinica Chimica Acta (CCA)-ELsevier				
News					
2007	IFCC eNews	Chair: Delvin E (CA)			
1998	IFCC news published in cooperation with CCLM and LabMedica Int.	Chair: Jacobs E (US)			
1997	e-IFCC News	Chair: Rothstein A (CO)			
1988-1992	IFCC News included in JIFCC	Chair: Broughton P (UK) Gouget B (FR)			
1976-1987	IFCC News	Chair: Lines J (UK)			
1975-1987 1969-1971	Regular NewsLetter	Chair: Frei J (CH), Holtz A (NL) Gowenlock A (UK) Lines J (UK)			



Key IFCC Publications				
2012	IFCC Key Directory	Editor: Jacobs E (US)		
2011	Relaunch of IFCC Website	Webmaster: Lyons A (CA)		
	Value of Laboratory Medicine Slide Presentation	Editor: Adeli K (CA)		
2010	IFCC Public Relations Slide Presentation	Editor: Adeli K (CA)		
2008	IFCC Public Relations Brochure	Editor: Adeli K (CA)		
1975-2007	Database of IFCC publications (1975-2007)	Editor: Lehmann P (US)		
2002	50th Anniversary Book	Editors: Lines J and Heeren J (UK)		
2002	Monographs: IFCC series	Editors: Lehmann P (US), Gouget B (FR)		



	Handbook	Editors:	
2012-2014		Burtis CA (US)	
2009-2011		Burtis CA (US)	
2006-2008		Wootton A (AU)	
2003-2005		Gouget B (FR), Bais R (AU)	
2000-2002		Gouget B (FR)	
1997-1999		Gouget B (FR)	
1994-1996		Desjardins PR (CA)	
1991-1993		Hicks J (US)	
	e-JIFCC		
2012		Kovács GL (HU)	
2007		Sypniewska G (PL)	
2002		Williams D (UK)	
1998		Chair: Waldenström J (SE)	
1989	JIFCC	Chair: Ash 0 (US)	
		Lin HJ (HK) Swaminathan R (UK)	
Public Relations Activities			
2008	IFCC Affiliation with Labs are Vital progamme		



Relaunch of IFCC Internet site

www.ifcc.org



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Leading the fields of Clinical Chemistry and Laboratory Medicine worldwide



Executive Board and Council

Scientific Activities

Education and Management Communications and Publications

Congresses and Conferences Index by Subject

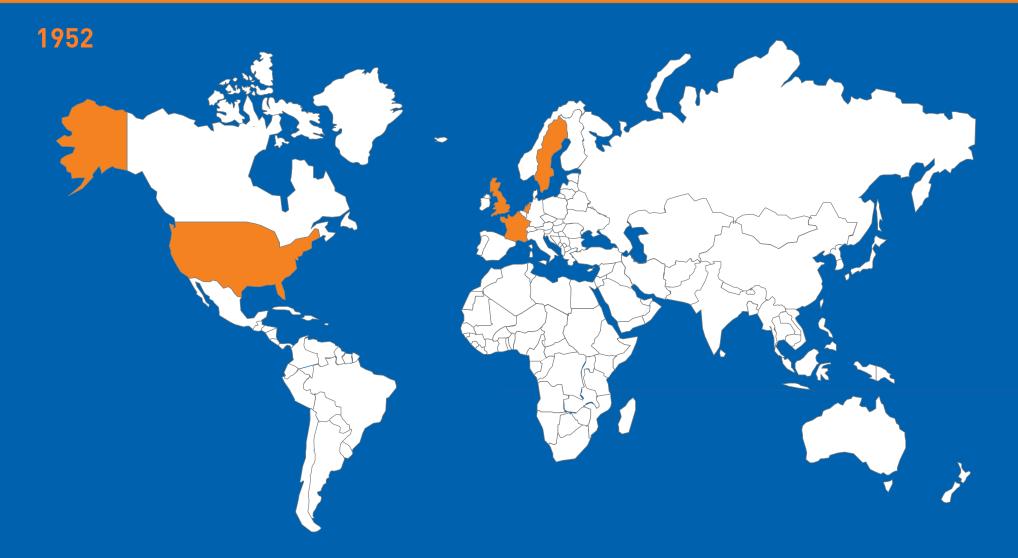
THE GROWTHOF IFCC





THE GROWTH OF IFCC





THE GROWTH OF IFCC



IFCC regional organisations

EFLM: European Federation of Clinical Chemistry and Laboratory Medicine

AFCB: Arab Federation of Clinical Biology

APFCB: Asia-Pacific Federation for Clinical Biochemistry and Laboratory Medicine

COLABIOCLI: Latin-American Confederation of Clinical Biochemistry

AFCC: African Federation of Clinical Chemistry

THE GROWTH OF IFCC



The international congresses of clinical chemistry

- C* XXII Istanbul (TR) 2014
- XXI Berlin (DE) 2011
- XX Fortaleza (BR) 2008
- XIX Orlando (US) 2005
- XVIII Kyoto (JP) 2002
- XVII Florence (IT) 1999
- XVI London (UK) 1996
- XV Melbourne (AU) 1993
- XIV San Francisco (US) 1990
- XIII The Hague (NL) 1987
- XII Rio de Janeiro (BR) 1984

- XI Vienna (AT) 1981
- X Mexico City (MX) 1978
- IX Toronto (CA) 1975
- VIII Copenhagen (DK) 1972
- VII Geneva/Evian (CH/FR) 1969
- VI Munich (DE) 1966
- **V Detroit (US) 1963**
- IV Edinburgh (UK) 1960
- III Stockholm (SE) 1957
- II New York (US) 1956
- I Amsterdam (NL) 1954



Corporate Members and Professional Society Members are equal partners in IFCC.

Corporate Membership was established at the Mexico City Congress in 1978. The first Corporate Representative, Henry Wishinky, was appointed to the EB in 1985. We work together in global clinical chemistry and laboratory medicine programmes to facilitate:

- Standardisation and harmonisation of methods, investigations and practices
- Clinical effectiveness improvement through optimised laboratory medicine services
- Innovation in the use and application of biomarkers and technology
- Evidence based practice in the use and interpretation of laboratory medicine
- Novel approaches to service delivery and working practices
- Cost effectiveness of diagnostic solutions & their contribution to society
- Educating society on the contribution of laboratory medicine to healthcare



































DE GRUYTER





































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