

# MATHEMATICS Without Borders

A HISTORY OF THE  
INTERNATIONAL  
MATHEMATICAL UNION



OLLI LEHTO

# Mathematics Without Borders A History Of The International Mathematical Union

**Karen Hunger Parshall**



## **Mathematics Without Borders A History Of The International Mathematical Union:**

**Mathematics Without Borders** Olli Lehto, 2012-12-06 At its meeting in April 1990 at the University of Cambridge the Executive Committee of the International Mathematical Union IMU decided that the largely unorganized archives of the Union should be properly arranged and catalogued Simultaneously the Executive Committee expressed the wish that a history of the Union should be written 1 As Secretary of the Union I had proposed that these issues be discussed at the Cambridge meeting but without having had in mind any personal role in the practical execution of such projects At that time the papers of the IMU were stored in Zurich at the Eidgenössische Technische Hochschule and I saw no reason why they could not remain there At about this time Professor K Chandrasekharan produced a handwritten article titled The Prehistory of the International Mathematical Union 2 and it seemed to me that this might serve as the beginning of a more comprehensive history I had first thought that Tuulikki MakeUiinen who during eight years as the Office Secretary of the IMU had become well acquainted with the Union would do the arranging of the archives in Zurich She had a preliminary look at the material there but it soon became clear that the amount of work required to bring order to it was too great to be accomplished in a few short visits from Helsinki The total volume of material was formidable *Mathematics Unbound: The Evolution of an International Mathematical Research Community, 1800-1945* Karen Hunger Parshall, 2002 Although today's mathematical research community takes its international character very much for granted this global nature is relatively recent having evolved over a period of roughly 150 years from the beginning of the nineteenth century to the middle of the twentieth century During this time the practice of mathematics changed from being centered on a collection of disparate national communities to being characterized by an international group of scholars for whom the goal of mathematical research and cooperation transcended national boundaries Yet the development of an international community was far from smooth and involved obstacles such as war political upheaval and national rivalries Until now this evolution has been largely overlooked by historians and mathematicians alike This book addresses the issue by bringing together essays by twenty experts in the history of mathematics who have investigated the genesis of today's international mathematical community This includes not only developments within component national mathematical communities such as the growth of societies and journals but also more wide ranging political philosophical linguistic and pedagogical issues The resulting volume is essential reading for anyone interested in the history of modern mathematics It will be of interest to mathematicians historians of mathematics and historians of science in general **Mathematical Communities in the Reconstruction**

**After the Great War 1918-1928** Laurent Mazliak, Rossana Tazzioli, 2021-03-27 This book is a consequence of the international meeting organized in Marseilles in November 2018 devoted to the aftermath of the Great War for mathematical communities It features selected original research presented at the meeting offering a new perspective on a period the 1920s not extensively considered by historiography After 1918 new countries were created and borders of several others were

modified Territories were annexed while some countries lost entire regions These territorial changes bear witness to the massive and varied upheavals with which European societies were confronted in the aftermath of the Great War The reconfiguration of political Europe was accompanied by new alliances and a redistribution of trade commercial intellectual artistic military and so on which largely shaped international life during the interwar period These changes also had an enormous impact on scientific life not only in practice but also in its organization and communication strategies The mathematical sciences which from the late 19th century to the 1920s experienced a deep disciplinary evolution were thus facing a double movement internal and external which led to a sustainable restructuring of research and teaching Concomitantly various areas such as topology functional analysis abstract algebra logic or probability among others experienced exceptional development This was accompanied by an explosion of new international or national associations of mathematicians with for instance the founding in 1918 of the International Mathematical Union and the controversial creation of the International Research Council Therefore the central idea for the articulation of the various chapters of the book is to present case studies illustrating how in the aftermath of the war many mathematicians had to organize their personal trajectories taking into account the evolution of the political social and scientific environment which had taken place at the end of the conflict

Globalizing Physics Roberto Lalli,Jaume Navarro,2024-07-09 This is an open access book available under the terms of a CC BY NC ND 4 0 International licence It is free to read on the Oxford Academic platform and offered as a free PDF download from OUP and selected open access locations Following the centenary of the International Union of Pure and Applied Physics this volume features contributions from leading science historians from around the world on the changing roles of the institution in international affairs from its foundation in 1922 to the present The case studies presented in this volume show the multitude of functions that IUPAP had and how these were related to the changing international political contexts The book is divided into three parts The first discusses the interwar period demonstrating how the exclusion of communities of the Central Powers from international scientific institutions imposed by victorious allied countries made IUPAP ineffective until the end of World War II The second part analyzes the changing roles assumed by IUPAP starting from its complete renovation after World War II Case studies covering the role of IUPAP in physics education in metrology in joint commissions with other unions and in defining the complex relations between pure and applied physics provide examples of IUPAP s impact on the world of science Part III squarely addresses the science diplomacy aspects of IUPAP during the Cold War highlighting the importance of IUPAP in furthering diplomatic goals and explaining the origin of the pursuit of the free circulation of scientists as the activity that characterized the main function of international unions during the Cold War Highlighting how often scientific agendas and political imperatives were entangled in the activities of IUPAP the book analyzes the work of the Union as exercises of science diplomacy thus contributing to the current debate on the use of science and technology in international relations

*The Oxford Handbook of the History of Mathematics* Eleanor

Robson, Jacqueline Stedall, 2009 This handbook explores the history of mathematics addressing what mathematics has been and what it has meant to practise it 36 self contained chapters provide a fascinating overview of 5000 years of mathematics and its key cultures for academics in mathematics historians of science and general historians *The International Commission on Mathematical Instruction, 1908-2008: People, Events, and Challenges in Mathematics Education* Fulvia Furinghetti, Livia Giacardi, 2023-01-30 The book presents the history of ICMI through a prosopographical approach In other words it pays a lot of attention to the actors of the International movement The portraits of the members of the ICMI Central Committees 1908 1936 and ICMI Executive Committees 1952 2008 and other eminent figures in ICMI history who have passed away in the first 100 years of its life are the guiding thread of the volume Each portrait includes Biographical information An outline of the various contributions made by the individual in question to the study of problems pertaining to mathematics teaching education Primary bibliography Secondary with particular attention to the publications concerning the teaching of mathematics Images photos book frontispieces relevant manuscripts The authors of the portraits 30 altogether are researchers in the history of mathematics mathematics and mathematics education The focus on the officer's role within ICMI and on his/her contributions to mathematics education make the portraits different from usual biographies In particular since most officers were active mathematicians the portraits shed light on aspects of their lesser known activity Connecting chapters place the action of these figures in the historical context and in the different phases of ICMI history **The Proceedings of the 12th International Congress on Mathematical Education** Sung Je Cho, 2015-02-10 This book comprises the Proceedings of the 12th International Congress on Mathematical Education ICME 12 which was held at COEX in Seoul Korea from July 8th to 15th 2012 ICME 12 brought together 3500 experts from 92 countries working to understand all of the intellectual and attitudinal challenges in the subject of mathematics education as a multidisciplinary research and practice This work aims to serve as a platform for deeper more sensitive and more collaborative involvement of all major contributors towards educational improvement and in research on the nature of teaching and learning in mathematics education It introduces the major activities of ICME 12 which have successfully contributed to the sustainable development of mathematics education across the world The program provides food for thought and inspiration for practice for everyone with an interest in mathematics education and makes an essential reference for teacher educators curriculum developers and researchers in mathematics education The work includes the texts of the four plenary lectures and three plenary panels and reports of three survey groups five National presentations the abstracts of fifty one Regular lectures reports of thirty seven Topic Study Groups and seventeen Discussion Groups *Mathematicians of the World, Unite!* Guillermo Curbera, 2009-02-23 This vividly illustrated history of the International Congress of Mathematicians a meeting of mathematicians from around the world held roughly every four years acts as a visual history of the 25 congresses held between 1897 and 2006 as well as a story of changes in the culture of mathematics over the past century Because the

congress is an int **The New Era in American Mathematics, 1920-1950** Karen Hunger Parshall, 2022-02-22 The 1920s witnessed the birth of a serious mathematical research community in America Prior to this mathematical research was dominated by scholars based in Europe but World War I had made the importance of scientific and technological development clear to the American research community resulting in the establishment of new scientific initiatives and infrastructure Physics and chemistry were the beneficiaries of this renewed scientific focus but the mathematical community also benefitted and over time began to flourish Over the course of the next two decades despite significant obstacles this constellation of mathematical researchers programs and government infrastructure would become one of the strongest in the world In this meticulously researched book Karen Parshall documents the uncertain but ultimately successful rise of American mathematics during this time Drawing on research carried out in archives around the country and around the world as well as on the secondary literature she reveals how geopolitical circumstances shifted the course of international mathematics She provides surveys of the mathematical research landscape in the 1920s 30s and 40s introduces the key players and institutions in mathematics at that time and documents the effect of the Great Depression and the second world war on the international mathematical community The result is a comprehensive account of the shift of mathematics center of gravity to the American stage Third International Handbook of Mathematics Education M.A. (Ken) Clements, Alan Bishop, Christine Keitel-Kreidt, Jeremy Kilpatrick, Frederick Koon-Shing Leung, 2012-11-15 The four sections in this Third International Handbook are concerned with a social political and cultural dimensions in mathematics education b mathematics education as a field of study c technology in the mathematics curriculum and d international perspectives on mathematics education These themes are taken up by 84 internationally recognized scholars based in 26 different nations Each of section is structured on the basis of past present and future aspects The first chapter in a section provides historical perspectives How did we get to where we are now the middle chapters in a section analyze present day key issues and themes Where are we now and what recent events have been especially significant and the final chapter in a section reflects on policy matters Where are we going and what should we do Readership Teachers mathematics educators ed policy makers mathematicians graduate students undergraduate students Large set of authoritative international authors *Invited Lectures from the 13th International Congress on Mathematical Education* Gabriele Kaiser, Helen Forgasz, Mellony Graven, Alain Kuzniak, Elaine Simmt, Binyan Xu, 2018-02-05 The book presents the Invited Lectures given at 13th International Congress on Mathematical Education ICME 13 ICME 13 took place from 24th 31st July 2016 at the University of Hamburg in Hamburg Germany The congress was hosted by the Society of Didactics of Mathematics Gesellschaft f r Didaktik der Mathematik GDM and took place under the auspices of the International Commission on Mathematical Instruction ICMI ICME 13 the biggest ICME so far brought together about 3500 mathematics educators from 105 countries additionally 250 teachers from German speaking countries met for specific activities The scholars came together to share their work on the

improvement of mathematics education at all educational levels The papers present the work of prominent mathematics educators from all over the globe and give insight into the current discussion in mathematics education The Invited Lectures cover a wide spectrum of topics themes and issues and aim to give direction to future research towards educational improvement in the teaching and learning of mathematics education This book is of particular interest to researchers teachers and curriculum developers in mathematics education

**Using the Mathematics Literature** Kristine K. Fowler, 2004-05-25 This reference serves as a reader friendly guide to every basic tool and skill required in the mathematical library and helps mathematicians find resources in any format in the mathematics literature It lists a wide range of standard texts journals review articles newsgroups and Internet and database tools for every major subfield in mathematics and details methods of access to primary literature sources of new research applications results and techniques Using the Mathematics Literature is the most comprehensive and up to date resource on mathematics literature in both print and electronic formats presenting time saving strategies for retrieval of the latest information

Giovanni Battista Guccia Benedetto Bongiorno, Guillermo P. Curbera, 2018-07-19 This book examines the life and work of mathematician Giovanni Battista Guccia founder of the Circolo Matematico di Palermo and its renowned journal the Rendiconti del Circolo matematico di Palermo The authors describe how Guccia an Italian geometer was able to establish a mathematical society in Sicily in the late nineteenth century which by 1914 would grow to become the largest and most international in the world with one of the most influential journals of the time The book highlights the challenges faced by Guccia in creating an international society in isolated Palermo and places Guccia s activities in the wider European context through comparisons with the formation of the London Mathematical Society and the creation of Mittag Leffler s Acta Mathematica in Stockholm Based on extensive searches in European archives this scholarly work follows both historical and scientific treads and will appeal to those interested in the history of mathematics and science in general

**“Dig Where You Stand”** 7 Kristín Bjarnadóttir, Fulvia Furinghetti, Alexander Karp, Johan Prytz, Gert Schubring, Ysette Weiss, Joerg Zender, 2023-10-31 The history of mathematics education is an interdisciplinary research area that is experiencing a significant development and this book presents recent work in this area This book is the result of the seventh conference ICHME International Conference on the History of Mathematics Education that took place at Erbacher Hof Mainz Germany from 19th to 23rd of September 2022 Nowadays the history of education is of the utmost importance for assessing the general development of the educational system s in which mathematics education occurs Usually the history of education is confined to history within a given civilization country or nation However the quality of the research for a given nation is enhanced when situated among various specific cases and comparative studies provide essential tools to broaden the perspectives to an international level Moreover mathematics as a school discipline has always functioned at the crossroads between general education and professional training thus relating its teaching history to professional working environments as well The 24 chapters in this

book reflect this wide area of research      *Meeting under the Integral Sign?: The Oslo Congress of Mathematicians on the Eve of the Second World War* Christopher D. Hollings, Reinhard Siegmund-Schultze, 2020-04-08 This book examines the historically unique conditions under which the International Congress of Mathematicians took place in Oslo in 1936 This Congress was the only one on this level to be held during the period of the Nazi regime in Germany 1933 1945 and after the wave of emigrations from it Relying heavily on unpublished archival sources the authors consider the different goals of the various participants in the Congress most notably those of the Norwegian organizers and the Nazi led German delegation They also investigate the reasons for the absence of the proposed Soviet and Italian delegations In addition aiming to shed light onto the mathematical dimension of the Congress the authors provide overviews of the nineteen plenary presentations as well as their planning and development Biographical information about each of the plenary speakers rounds off the picture The Oslo Congress the first at which Fields Medals were awarded is used as a lens through which the reader of this book can view the state of the art of mathematics in the mid 1930s

**National Subcommissions of ICMI and their Role in the Reform of Mathematics Education** Alexander Karp, 2019-05-09 ICMI or IMUK was founded in 1908 and initiated the establishment of national subcommissions to launch national activities in response to the IMUK agenda and to promote the reform proposals within each member country While ICMI s activities were thoroughly studied the activities of the national subcommissions are studied only very marginally In the meantime their work has been of major importance both because of their role in exploring and documenting the development of mathematics education at the beginning of the 20th century and because of the changes and new ideas which they brought to their countries Importantly even if some results of their activities were analyzed within their countries in the corresponding languages almost nothing is known internationally This book is planned to deepen our knowledge on at least some of the national subcommissions The book will interest both researchers and others interested in mathematics education and its development      [Guide to Information Sources in](#)

[Mathematics and Statistics](#) Martha A. Tucker, Nancy D. Anderson, 2004-09-30 This book is a reference for librarians mathematicians and statisticians involved in college and research level mathematics and statistics in the 21st century We are in a time of transition in scholarly communications in mathematics practices which have changed little for a hundred years are giving way to new modes of accessing information Where journals books indexes and catalogs were once the physical representation of a good mathematics library shelves have given way to computers and users are often accessing information from remote places Part I is a historical survey of the past 15 years tracking this huge transition in scholarly communications in mathematics Part II of the book is the bibliography of resources recommended to support the disciplines of mathematics and statistics These are grouped by type of material Publication dates range from the 1800 s onwards Hundreds of electronic resources some online both dynamic and static some in fixed media are listed among the paper resources Amazingly a majority of listed electronic resources are free      **Scientific Communication Across the Iron Curtain** Christopher D.



Hollings,2015-12-12 This monograph provides a concise introduction to the tangled issues of communication between Russian and Western scientists during the Cold War It details the extent to which mid twentieth century researchers and practitioners were able to communicate with their counterparts on the opposite side of the Iron Curtain Drawing upon evidence from a range of disciplines a decade by decade account is first given of the varying levels of contact that existed via private correspondence and conference attendance Next the book examines the exchange of publications and the availability of one side s work in the libraries of the other It then goes on to compare general language abilities on opposite sides of the Iron Curtain with comments on efforts in the West to learn Russian and the systematic translation of Russian work In the end author Christopher Hollings argues that physical accessibility was generally good in both directions but that Western scientists were afflicted by greater linguistic difficulties than their Soviet counterparts whose major problems were bureaucratic in nature This volume will be of interest to historians of Cold War science particularly those who study communications and language issues In addition it will be an ideal starting pointing for anyone looking to know more about this fascinating area

**Complexities** Bettye Anne Case,Anne M. Leggett,2016-05-31 Sophie Germain taught herself mathematics by candlelight huddled in her bedclothes Ada Byron Lovelace anticipated aspects of general purpose digital computing by more than a century Cora Ratto de Sadosky advanced messages of tolerance and equality while sharing her mathematical talents with generations of students This captivating book gives voice to women mathematicians from the late eighteenth century through to the present day It documents the complex nature of the conditions women around the world have faced and continue to face while pursuing their careers in mathematics The stories of the three women above and those of many more appear here each one enlightening and inspiring The earlier parts of the book provide historical context and perspective beginning with excursions into the lives of fifteen women born before 1920 Included are histories of collective efforts to improve women s opportunities in research mathematics In addition a photo essay puts a human face on the subject as it illustrates women s contributions in professional associations More than eighty women from academe government and the private sector provide a rich m lange of insights and strategies for creating workable career paths while maintaining rewarding personal lives The book discusses related social and cultural issues and includes a summary of recent comparative data relating to women and men in mathematics and women from other sciences First person accounts provide explicit how tos many narratives demonstrate great determination and perseverance Talented women vividly portray their pleasure in discovering new mathematics The senior among them speak out candidly interweaving their mathematics with autobiographical detail At the beginning of a new century women at all stages of their careers share their outlooks and experiences Clear engaging and meticulously researched Complexities will inspire young women who are contemplating careers in mathematics and will speak to women in many fields of endeavor and walks of life Modern Mathematics Dirk

De Bock,2023-03-08 The international New Math developments between about 1950 through 1980 are regarded by many

mathematics educators and education historians as the most historically important development in curricula of the twentieth century. It attracted the attention of local and international politicians, of teachers and of parents and influenced the teaching and learning of mathematics at all levels: kindergarten to college graduate in many nations. After garnering much initial support, it began to attract criticism. But as Bill Jacob and the late Jerry Becker show in Chapter 17, some of the effects became entrenched. This volume, edited by Professor Dirk De Bock of Belgium, provides an outstanding overview of the New Math/modern mathematics movement. Chapter authors provide exceptionally high quality analyses of the rise of the movement and of subsequent developments within a range of nations. The first few chapters show how the initial leadership came from mathematicians in European nations and in the United States of America. The background leaders in Europe were Caleb Gattegno and members of a mysterious group of mainly French pure mathematicians who since the 1930s had published under the name of a fictitious Nicolas Bourbaki. In the United States, there emerged during the 1950s various attempts to improve U.S. mathematics curricula and teaching, especially in secondary schools and colleges. This side of the story climaxed in 1957 when the Soviet Union succeeded in launching Sputnik, the first satellite. Undoubtedly, this is a landmark publication in education. The foreword was written by Professor Bob Moon, one of a few other scholars to have written on the New Math from an international perspective. The final epilogue chapter by Professor Geert Vanpaemel, a historian, draws together the overall thrust of the volume and makes links with the general history of curriculum development, especially in science education, including recent globalization trends.

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