

Zeitschrift: L'Enseignement Mathématique
Herausgeber: Commission Internationale de l'Enseignement Mathématique
Band: 10 (1964)
Heft: 1-2: L'ENSEIGNEMENT MATHÉMATIQUE

Artikel: "WHICH SUBJECTS IN MODERN MATHEMATICS AND WHICH APPLICATIONS IN MODERN MATHEMATICS CAN FIND A PLACE IN PROGRAMS OF SECONDARY SCHOOL INSTRUCTION ? "
Autor: Kemeny, John G.
Vorwort: 1. Preface
DOI: <https://doi.org/10.5169/seals-39416>

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

Download PDF: 15.02.2026

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

“ WHICH SUBJECTS IN MODERN MATHEMATICS AND
WHICH APPLICATIONS IN MODERN MATHEMATICS
CAN FIND A PLACE IN PROGRAMS OF SECONDARY
SCHOOL INSTRUCTION ? ”

by John G. KEMENY

*(Report to
The International Congress of Mathematicians Stockholm,
August, 1962)*

1. PREFACE

The International Commission on Mathematical Instruction chose the present topic as one to be studied by national sub-commissions in the years 1958 to 1962. When I learned that I was to serve as reporter for this topic at the Stockholm Congress, I contacted all the national subcommissions of ICMI, requesting that reports be sent to me when available. I am very pleased to note that I am now in possession of 21 national reports from all over the world. The following is a summary of these 21 reports, with special emphasis on similarities and differences in points of view.

While I am taking every possible precaution to represent views of various nations accurately and fairly, I fully realize that brief reports cannot reproduce accurately many long years of work. May I therefore take this opportunity to apologize to any mathematician who may feel that the following report is either inaccurate or an insufficient presentation of achievement in his own nation.

Reporters

<i>Argentina:</i> José Babini	<i>Italy:</i> Ugo Morin
<i>Australia:</i> T. G. Room	<i>Israel:</i> Michael Maschler
<i>Denmark:</i> Svend Bundgaard	<i>Luxembourg:</i> A. Gloden
<i>England:</i> E. A. Maxwell	<i>Netherlands:</i> J. H. Wansink
<i>Finland:</i> Yrjö Juvä	<i>Norway:</i> Kay Piene

<i>France</i> : Lucienne Félix	<i>Poland</i> : S. Straszewics
<i>Germany</i> : P. Sengenhorst	<i>Portugal</i> : J. Sebastien e Silva
<i>Greece</i> : C. P. Papaioannou	<i>Sierra Leone</i> : E. M. R. Smith
<i>Hungary</i> : Danóci Angéla	<i>Sweden</i> : Matts Håstad
<i>India</i> : K. Chandrasekharan	<i>Switzerland</i> : M. Rueff
	<i>U.S.A.</i> : John G. Kemeny

2. THE PROCESS OF CHANGE

Only a very few countries reported that so far little or no attempt to introduce modern mathematics had taken place. Of course, this small number may not be significant, since my sample is biased: Presumably countries in which absolutely no attempt to modernize mathematics has occurred have not filed reports on this topic.

Of the remaining countries, the vast majority report that the attempts to modernize the curricula have consisted mostly of informal discussions amongst mathematics teachers and a number of highly encouraging experiments by individual teachers. It seems to be a universal experience that attempts to teach selected topics from modern mathematics well, in reasonable quantities, can be highly successful.

I shall discuss in somewhat more detail reports of a few countries where national reform movements have taken place.

France had a head-start over most other countries in that the French secondary school mathematics program was even traditionally unusually strong. The typical secondary school teacher in France had a strong university degree in mathematics which both placed France into a good starting position and made it easier to introduce modern ideas. Reform started with a series of experiments by teachers trying out various topics of modern mathematics in the classroom. This led to the writing of a series of articles and monographs which were widely discussed. Eventually, a number of seminars were formed at which secondary school teachers and college professors together discussed pedagogical problems involved in curriculum reform. France is fortunate enough to have persuaded a number of its very famous mathematicians to give lectures to high school