Didactic interactions between France and Latin-America. The case of Mexico

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Currently

France and Latino America

Didactic interactions between France and Latin-America. The case of Mexico

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Currently

Universidades de Grenoble, Lille, Montpellier, Paris, Rouen, Strasbourg y los IREMS, ESPE e IFE

France and Mexico

DME CINVESTAV
DIE CINVESTAV
CICATA – IPN
Tecnológico de Monterrey
Universidad Autónoma de Guerrero
Universidad de Guadalajara
Universidad de Zacatecas

Didactic interactions between France and Latin-America. The case of Mexico
Didactic interactions between France and Mexico have involved different institutions, themes, theories, methodologies and researchers.
Center for Advanced Research and Studies

Didactic interactions between France and Latin-America. The case of Mexico
1975 Eugenio Filloy and Carlos Imaz

Jesús Alarcón (nickname Papini) and Fernando Hitt, went to Strasbourg to study their doctoral degrees

Research that focuses on random phenomena and probability

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• DME’s inclusion in the *National Register of Quality Graduate Programs (PNPC)*

• **Research** about the rational numbers, in algebra, probability, functions.

• **Frameworks**: epistemology, cognition sciences, socio-cultural theories of learning

• **Participation in Congresses**: ICME, CIEAEM, PME, PME – NA, RELME, Iberoamérica, etc.

• International status of the journal Relime
Numerous studies of teaching and learning demonstrate that children are not simple receptors who accumulate information given by adults, but that they learn by modifying previous ideas through interaction with new problematic situations. In this perspective, math should be a tool that students use to re-create and evolve when faced with the need to solve problems.
Center in Applied Science and Advanced Technology

• In 2000, the Center in Applied Science and Advanced Technology created On-line Programs for Mathematics Education (PROME) at the Master’s and Doctorate levels for math.

• Some of the students currently enrolled come from such Latin American countries as Argentina, Chile, Colombia and Uruguay.
The ‘learning units’ (LU) on which the programs are based have been designed with aim of building a bridge between research in mathematics education and teaching practice.

Online resources to learning mathematics at university level ‘e-math’ platform

Resources by and for math teachers (2013)

The role of language in math activities (2015)
Ethnomathematics

Currents originating in Latin America

Socioepistemology
Created by a research group led by Ricardo Cantoral. Its main focus is the social construction of mathematical knowledge.
Some perspectives

• Differential and integral calculus: a seminar and annual meeting with participation by French researchers, invited speakers and workshop organizers that offers spaces for new collaborations

• Design of Study and Research Paths for training future technicians and professionals that set out from analyses of professional contexts, in collaboration with Latin American, French and Spanish researchers

• Studies of complementarity between the socioepistemological and ATD theories by Latin American and French researchers
THANK YOU