

Part I
USE OF FUNDS PROVIDED THROUGH
THE ICSU GRANTS PROGRAMME IN 2012

ITEMIZED FINANCIAL STATEMENT

(Deadline for completion: 30 March 2013)

Name of ICSU body: **International Mathematical Union**

Title of activity: **Capacity and Network Project (CANP) Central America and the Caribbean**

I. Grant received from ICSU	€ 30,000
II. Grants from other sources	€ 54,000
Indicate name(s) of co-funder(s) and amount:	
• Ministry of Public Education of Costa Rica	€ 6,300
• Instituto de Ciencias Matemáticas ICMAT Mexico	€ 4,000
• Universito of Costa Rica	€ 7,000
• Instituto Tecnológico de Santo Domingo	€ 750
• Universidad Autónoma de Santo Domingo	€ 750
• Costa Rican Editorial Tecnológica	€ 200
• International Mathematical Union (IMU, CDC, ICMI):	€ 35,000
Was the ICSU grant important in obtaining additional funding	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Total funds for the activity (I+II)	€ 84,000

Breakdown of expenditure of grant	Total Euros €	ICSU Euros €
Research		
Travel/ Accommodation for Meetings	69,000	30,000
Training/teaching		
Planning/coordination	10,000	
Publications/documentation	4,000	
Other (specify)	1,000	

Detailed breakdown of expenditure**1. Research**

List all items and corresponding costs:

2. Travel/Accommodation

Include names and professional address of person(s) having benefited from ICSU support and the amount of funds provided for each of them

Name	City and Country	Travel	Accommodation
Yolanda Serres	Caracas, Venezuela	€ 1,200.00	€ 782.00
Walter Beyer	Caracas, Venezuela	€ 1,200.00	€ 782.00
Martha Iglesias	Caracas, Venezuela	€ 1,200.00	€ 782.00
Nelly León	Maturín, Venezuela	€ 1,600.00	€ 782.00
Jaime Gutiérrez	Panamá City, Panamá	€ 500.00	€ 782.00
Teresita González de Avila	Panamá City, Panamá	€ 500.00	€ 782.00
Mayra Murillo Lorenzo	Panamá City, Panamá	€ 500.00	€ 782.00
Luis Moreno Chandler	Panamá City, Panamá	€ 500.00	€ 782.00
Edgar Alberto Guacaneme	Bogotá, Colombia	€ 800.00	€ 782.00
Diego Garzón Castro	Cali, Colombia	€ 700.00	€ 782.00
Gilberto Obando Zapata	Medellín, Colombia	€ 700.00	€ 782.00
Jhony Villa Ochoa	Medellín, Colombia	€ 700.00	€ 782.00
Luis Carlos Arboleda	Cali, Colombia	€ 700.00	€ 782.00
Juana Caraballo	Santiago, Dominican Rep	€ 590.00	€ 845.00
Jorge Blanco	Santiago, Dominican Rep	€ 590.00	€ 845.00
Ivanovna Cruz	Santo Domingo, Dominica Rep	€ 503.00	€ 782.00
Sarah González	Santiago, Dominican Rep	€ 590.00	€ 845.00
Manuel Limonta	México City, México	€ 680.00	€ 782.00
Manuel De León	Madrid, Spain	€ 1,200.00	€ 782.00
Subtotals		€ 14,953.00	€ 15,047.00
Total	€	30,000.00	

Date: 21.02.2013

Signature:
(Angel Ruiz)



Designation: Project Manager CANP Central America and the Caribbean

Part II
ACTIVITY REPORTING FORM
FOR ICSU GRANTS PROGRAMME 2012

(Deadline for completion: 30 March 2013)

Name of ICSU body: **International Mathematical Union**

Title of activity: **Capacity and Network Project (CANP) Central America and the Caribbean**

*An activity report must be provided using the format described below for each project that received a Grant. State whether and how the project objectives were achieved, how the partners benefited from the work, how ICSU's goals were served, and a summary of any follow-on activities that were seeded by this project. The maximum length of the report should be **4-pages**.*

After consideration by CSPR, the intention is that this activity report will be made publicly available on the ICSU web site.

Which priority area(s) from the ICSU Strategic Plan did this project address?

The project addressed A) ICSU's strategic priority of supporting 'Capacity Building and Science Education and Outreaching to Teachers and Young Scientist' and B) ICSU's Regional Office in Latin America and the Caribbean scientific priority 'Mathematics Education'.

Was an ICSU Regional Office involved, if so, which one: ROLAC, especially Professor Manuel Limonta (Director of the Regional Office for Latin America).

1. Statement of objectives (1/3 page)

- *Including brief description of activity (city, venue, date and the number of participants / beneficiaries as applicable)*

From August 6 - 17, 2012, the International School-Seminar on Capacity building in Mathematics and Mathematics Education CANP Central America and the Caribbean was held in San Jose, Costa Rica.

The two-week event brought together mathematicians, mathematics educators, teachers, school math advisers, and administrative staff from universities in Colombia, Venezuela, the Dominican Republic, Panama and Costa Rica (43 national delegates, 10 speakers and 13 organizers). CANP 2012 was noted for the diversity of its participants from a wide range of ages, academic occupations and nationalities as well as high number of female attendants. This showed that CANP was successful in promoting the involvement of women scientists and young scientists.

Main academic activity of participants in CANP 2012

Activity	Number of participants	%
Research in Math	5	7.57
Research in Math Education	10	15.15
Preparation of teachers of Mathematics	13	19.69
Teaching Math in Higher Education	15	21.21
Teaching Math in Secondary School (grades 7 to 12)	4	6.06
Teaching in Primary School (grades 1 to 6)	1	1.51
Counseling or administration in primary or secondary school	13	19.69
Counseling or administration in higher education	3	4.54
Other	3	4.54
Total	66	100

CANP Central America and the Caribbean strengthened mathematical education by promoting regional development and capacity building for the educators of mathematics teachers, and forming a self-sustainable regional and international network for mathematics education in Central America and the Caribbean. The project contributed to the further development of a professional community of mathematicians, educationalists, teachers, policy makers and institutions within and outside of the targeted region.

The scientific program improved the pedagogical and mathematical capacity of mathematics teacher-educators and mathematics teachers.

The local and international community was involved through public lectures and a symposium open to the public, as well as good media coverage.

2. Major outcome / achievements (1-2 pages)

- *Including a summary statement (1-2 sentences) of major outcome*

The creation of the Mathematics Education Network: ‘REDUMATEMATICACYC’ was an important outcome of CANP Central America and the Caribbean. A work and action plan has been established by the network, as well as organizational forms and various working groups.

More information can be found (in Spanish) at: <http://www.redumate.org/>

CANP Central America and the Caribbean included the following activities: lectures, courses, a national reports forum, a forum for the construction of a regional network, and an open symposium.

CANP 2012 Central America and the Caribbean achieved:

- The creation of a mathematics education network in Central America and the Caribbean including the development of regional working groups that will support and improve mathematics education and mathematics teacher training in the region.
- The participation and capacity building of mathematics teachers, mathematics teacher trainers and mathematicians from five countries in Central America and the Caribbean.
- The preparation of initial draft papers which assess pre-service and in-service teacher preparation in targeted countries.
- A significant national and international impact in the region and beyond, through the participation of professionals from various institutions associated with mathematics education and indirectly through extensive press coverage. In Costa Rica support for on-going local efforts for ambitious reforms in mathematics education was increased greatly.
- Effective local and international organization and coordination of all activities that provided crucial support for the academic work developed.
- The joint coordination and mutual support of efforts of different international and regional organizations such as CIAEM-IACME (Inter American Committee on Mathematics Education), ICSU (International Council for Science) in Latin America Regional Office and IMU- ICMI.

CANP 2012 featured the presentation and discussion of five (5) national reports on the situation of Mathematics Education in the region. The reports will form the basis and goals of the regional network that was constituted and will be essential for the decision-making process of educational authorities in the region. The reports will also serve as catalysts for future research and the theses of students in Mathematics Education.

The reports are expected to be published in Spanish (2013) and English (2014).

On August 11, 2012, from 8: 00 a.m. to 8: 00 p.m., the Costa Rican Symposium XXV on Math, Science and Society was held, drawing 181 participants from the scientific community and related disciplines (school math advisers, mathematics policy-makers as well as the general public).

All lectures and courses were filmed and an edited collection of videos has been uploaded to YouTube. Multimedia was used extensively for greater impact, to serve as an online library and to increase the materials and resources available online for educators.

The video can be found at:

<http://www.youtube.com/user/redumatematicacyc>

3. Value of collaborative partnerships and benefits to the scientific community and other stakeholders (1/3 page)

CANP Central America and the Caribbean showed high levels of international cooperation and coordination which allowed regional network creation and fostered capacity building in Mathematics and Mathematics Education in the targeted region.

With the founding of the *Mathematics education network of Central America and the Caribbean website: <http://www.redumate.org/>* a webpage was created which will serve for communication and interaction between the members of the network and others interested in mathematics education. This webpage will benefit the scientific community in the region and beyond.

All documents used in the activities were uploaded on the website; texts for each course, lectures, power point presentations, support materials, draft reports, additional documents and short CVs and photos of all participants and daily sessions.

The new website will be used as a forum to discuss aspects of the activities.

Several televisions, radio and newspapers reported on the event. The presence of the Costa Rican minister of public education at the opening ceremony of CANP Central America and the Caribbean showed strong support from the government. The event increased public interest in mathematics education, mathematics and necessary reforms and raised the awareness of the IMU, ICMI, ICSU and collaborative partners.

4. Follow up activities and future implications (1/2 page)

The newly created network REDUMATEMATICACYC and its working groups (seven in total) will implement the newly-created working plan.

The five national reports on the pre-service and in-service preparation of teachers of mathematics need to be revised and improved. The network will finalize the reports and aims to publish the reports in 2013.

The progress assessment of the network's activity will be done in 2013.

Convergence was achieved between CANP objectives and the goals of ICSU in the region. Several themes of CANP correspond to those of ICSU, and the direct participation of Manuel Limonta and José Antonio de la Peña (regional office for Latin America of ICSU) showed the strong relationship between CANP and the ICSU. Joint activities between the two organizations in the future remain likely.

Date: 21.02.2013

Signature:
(Angel Ruiz)



Designation: Project Manager CANP Central America and the Caribbean

IMU/ ICMI most gratefully acknowledges the grant provided by ICSU for CANP 2012.



Participants of CANP Central America and the Caribbean