Appendix A

Acknowledgements

Developing and implementing TIMSS 2003 was an extremely ambitious and truly collaborative effort involving hundreds of individuals around the world. Staff from the national research centers in each participating country, the International Association for the Evaluation for Educational Achievement (IEA), the TIMSS & PIRLS International Study Center (ISC) at Boston College, advisors, and funding agencies worked closely to develop and implement TIMSS 2003. The project would not have been possible without the tireless efforts of all involved. Below, the individuals and organizations are acknowledged for their contributions. Given that implementing TIMSS 2003 has spanned approximately four years and involved so many people and organizations, this list may not pay heed to all who contributed throughout the life of the project. Any omission is inadvertent. TIMSS 2003 also acknowledges the students, teachers, and school principals who contributed their time and effort to the study. This report would not be possible without them.

Funding Agencies

Funding for the international coordination of TIMSS 2003 was provided by the National Center for Education Statistics of the US Department of Education, the US National Science Foundation, the World Bank, the United Nations Development Programme (UNDP), Boston College, and participating countries. Valena Plisko, Patrick Gonzales, Elois Scott, and Eugene Owen of the National Center for Education Statistics; Janice Earle, Larry Suter, Finbarr Sloane, and Elizabeth VanderPutten of the National Science Foundation; Marlaine Lockheed of the World Bank; and Maen Nsour of the UNDP each played a crucial role in making TIMSS 2003 possible and for ensuring the quality of the study. Each participating country was responsible for funding national project costs and implementing TIMSS 2003 in accordance with the international procedures.
Management and Operations

TIMSS 2003 was conducted under the auspices of the IEA. The study was directed by Michael O. Martin and Ina V.S. Mullis, and managed centrally by the staff of the TIMSS & PIRLS International Study Center at Boston College, Lynch School of Education. Although the study was directed by the International Study Center and its staff members implemented various parts of TIMSS 2003, important activities also were carried out in centers around the world. In the IEA Secretariat, Hans Wagemaker, Executive Director, was responsible for overseeing fundraising and country participation. The IEA Secretariat also managed the ambitious translation verification effort conducted for the field test and main assessment and recruited international quality control monitors in each country. The IEA Data Processing Center was responsible for processing and verifying the data from the participating countries and for constructing the international database. Statistics Canada was responsible for collecting and evaluating the sampling documentation from each country and for calculating the sampling weights. Educational Testing Service in Princeton, New Jersey provided consultation on psychometric issues as well as technical support and software for scaling the achievement data. The Project Management Team, comprising the study directors and representatives from the International Study Center, IEA, Statistics Canada, and Educational Testing Service, met regularly throughout the study to discuss the study’s progress, procedures, and schedule.

IEA Secretariat

Alejandro Tiana, IEA Chair
Hans Wagemaker, Executive Director
Barbara Malak-Minkiewicz, Manager Membership Relations
Juriaan Hartenberg, Financial Manager
Isabelle Braun-Gemin, Financial Manager Assistant
Katazyna Krohn, Management Assistant

TIMSS & PIRLS International Study Center at Boston College

Michael O. Martin, Co-Director
Ina V.S. Mullis, Co-Director
Eugenio J. Gonzalez, Director of Operations and Data Analysis
Teresa Smith Neidorf, TIMSS Science Coordinator
Robert Garden, TIMSS Mathematics Coordinator
Steven Chrostowski, TIMSS Project Coordinator
Ann Kennedy, PIRLS Project Coordinator
Joseph Galia, Senior Statistician/Programmer
Isaac Li, Statistician/Programmer
Dana Diaconu, Research Associate
Ebru Erberber, Research Associate
Cheryl Flaherty, Research Associate
Alka Arora, Graduate Assistant
María José Ramírez, Graduate Assistant
Keith Morgan, Publications Design & Production Manager (2003 to present)
José Nieto, Publications Production Manager (until 2003)
Mario Pita, Data Graphics Specialist
Betty Hugh, Data Graphics Specialist
Susan Messner, Graphics Specialist
Christine Hoage, Manager, Finance
Marcie Petras, Manager, Office Administration
Laura Brown, Administrative Coordinator
Rita Holmes, Administrative Coordinator

IEA DATA PROCESSING CENTER
Dirk Hastedt, Senior Researcher
Pierre Foy, Senior Researcher
Oliver Neuschmidt, Researcher
Juliane Barth, Researcher
Ieva Johansone, Junior Researcher
Milena Taneva, Junior Researcher
Christine Busch, Junior Researcher
Dirk Oehler, Programmer
Stefan Petzchen, Programmer
Harpreet Singh Choudry, Programmer
Olaf Zühlke, Research Assistant
Warnuna Ratnayake, Research Assistant
Jayprakash Kooraram, Research Assistant
Marta Kostek Drosin, Research Assistant

STATISTICS CANADA
Marc Joncas, Senior Methodologist
EDUCATIONAL TESTING SERVICE

John Barone, Executive Director, Center for Data Analysis Research
Matthias Von Davier, Principal Research Scientist
Ed Kulick, Manager, Research Data Analysis

PROJECT MANAGEMENT TEAM

Michael O. Martin, International Study Center
Ina V.S. Mullis, International Study Center
Eugenio J. Gonzalez, International Study Center
Hans Wagemaker, IEA Secretariat
Dirk Hastedt, IEA Data Processing Center
Pierre Foy, IEA Data Processing Center
Marc Joncas, Statistics Canada
Matthias Von Davier, Educational Testing Service

TIMSS 2003 SPECIAL CONSULTANTS

Sampling Referee
Keith Rust, Westat, Inc.

Psychometric Design
Eugene Johnson, American Institutes for Research

IEA Editorial Review
David Robitaille, University of British Columbia

IEA Technical Executive Group

TIMSS 2003 ADVISORY COMMITTEES AND TASK FORCES

The TIMSS & PIRLS International Study Center at Boston College was supported in its work by a number of advisory committees. The International Expert Panel in Mathematics and Science played a crucial role in developing the TIMSS 2003 frameworks and specifications for the assessment. The Mathematics and Science Item Development Task Forces coordinated the work of the national research coordinators in developing and reviewing the mathematics and science achievement items. The Science and Mathematics Item Review Committee reviewed and revised successive drafts of the achievement items and was an integral part of the scale anchoring process. The Questionnaire...
Item Review Committee revised the TIMSS context questionnaires for the 2003 assessment.

International Expert Panel

Mathematics
Khattab Abu-Libdeh, Jordan
Anica Aleksova, Republic of Macedonia
Kiril Bankov, Bulgaria
Aarnout Brombacher, South Africa
Anna Maria Caputo, Italy
Joan Ferrini-Mundy, United States
Jim Fey, United States
Derek Holton, New Zealand
Jeremy Kilpatrick, United States
Pekka Kupari, Finland
Mary Lindquist, United States
David Robitaille, Canada
Graham Ruddock, England
Hanako Senuma, Japan

Science
K.Th. (Kerst) Boersma, the Netherlands
Rodger Bybee, United States
Audrey Champagne, United States
Reinders Duit, Germany
Martin Hollins, England
Eric Jakobsson, United States
Galina Kovalyova, Russian Federation
Svein Lie, Norway
Jan Lokan, Australia
Francisco Mazzitelli, Argentina
Gabriela Noveanu, Romania
Margery Osborne, United States
Jana Paleckova, Czech Republic
Hong Kim Tan, Singapore
Khadija Zaim-Idrissi, Morocco
Mathematics Item Development Task Force
Robert Garden, New Zealand (Mathematics Coordinator)
Chancey Jones, United States
Graham Ruddock, England

Science Item Development Task Force
Teresa Smith Neidorf, United States (Science Coordinator)
Svein Lie, Norway
Christine O’Sullivan, United States

Science and Mathematics Item Review Committee

Mathematics
Anica Aleksova, Republic of Macedonia
Kiril Bankov, Bulgaria
Aarnout Brombacher, South Africa
Francine Jaques, Canada
Jeremy Kilpatrick, United States
Mary Lindquist, United States
Graham Ruddock, England
Hanako Senuma, Japan

Science
Audrey Champagne, United States
Chang Chu-Nan, Chinese Taipei
Galina Kovalyova, Russian Federation
Svein Lie, Norway
Jan Lokan, Australia
Francisco Mazzitelli, Argentina
Gabriela Noveanu, Romania
Ahmed Muhammed Rafea, Bahrain
Vivien Talisayon, Philippines
Sandy Tan, Singapore

Questionnaire Item Review Committee
Khattab Abu Lebdeh, Jordan
Klaas Bos, the Netherlands
Megan Chamberlain, New Zealand
Chiu Mei-Hung, Chinese Taipei
Rich Coley, United States
Patrick Gonzales, United States
Mike Marshall, Canada

NATIONAL RESEARCH COORDINATORS

The TIMSS 2003 National Research Coordinators and their staff had the enormous task of implementing the TIMSS 2003 design. This involved obtaining funding for the project; participating in the development of the instruments and procedures; conducting field tests; participating in and conducting training sessions; translating the instruments and procedural manuals into the local language; selecting the sample of schools and students; working with the schools to arrange for the testing; arranging for data collection, coding, and data entry; preparing the data files for submission to the IEA Data Processing Center; contributing to the development of the international reports; and preparing national reports. The way in which the national centers operated and the resources that were available varied considerably across the TIMSS 2003 countries. In some countries, the tasks were conducted centrally, while in others, various components were subcontracted to other organizations. In some countries, resources were more than adequate, while in some cases, the national centers were operating with limited resources. All of the TIMSS 2003 National Research Coordinators and their staff members are to be commended for their professionalism and their dedication in conducting all aspects of TIMSS.

ARGENTINA

Margarita Poggi
Ministerio de Educación
Dirección Nacional de Información y Evaluación
Paraguay 1657, 2er Piso – Of 201
Buenos Aires C1062ACA

ARMENIA, REPUBLIC OF

Arsen Baghdasaryan
Yerevan State University
26 Halabyan Str Apt 31
Yerevan 375036
AUSTRALIA
Sue Thomson
Australian Council for Educational Research (ACER)
19 Prospect Hill Rd.
Camberwell, Victoria 3124

BAHRAIN
Ahmed Muhammad Rafea
Chief, Assessment and Curriculum Development Division
PO Box 43
Ministry Education
Manama

BELGIUM (Flemish)
Christiane Brusselmans-Dehairs
Vakgroep Onderwijskunde Universiteit Gent
Henri Dunantlaan 2
B 9000 Gent

Ann Van Den Broeck
LIVO
Dekenstraat 2
Leuven B-3000

BOTSWANA
Cyprian Ismael Cele
Examinations Research and Testing Division
Ministry of Education
Private Bag 0070
Gaborone

BULGARIA
Kiril Bankov
Faculty of Mathematics and Informatics
University of Sofia
5, bul James Boucher
Sofia 1164
CHILE
Leonor Cariola Huerta
Ministerio de Educación
Alameda 1146
Piso 8, Sector B
Santiago

CHINESE TAIPEI
Chu-Nan Chang
Dean of College of Science
National Taiwan Normal University
88 Sec 4, Ting-Chou Road
Taipei, 116

CYPRUS
Constantinos Christou
Research and Evaluation Department
Pedagogical Institute
University of Cyprus-Dept. of Education
Kallipoleous 75, P.O. Box 20537
Nicosia 1678

EGYPT
Solaiman El-Khodary El-Sheikh
National Center of Examinations and Educational Evaluation
Hadaba Olya
Al-Mokkatam
Cairo

ENGLAND
Graham Ruddock
National Foundation for Educational Research (NFER)
The Mere, Upton Park
Slough, Berkshire
SL1 2DQ

ESTONIA
Kristi Mere
Estonian Ministry of Education
Munga 18
Tartu EE 50088
GHANA
Aba Mansa Folson
Head of Inspectorate Division
Ministry of Education
Ghana Education Service
Arakan Printing Press Building
Kotobabi, Accra

HONG KONG, SAR
Frederick Leung
The University of Hong Kong – Hong Kong IEA Centre
Pokfulam Road
Hong Kong, SAR

HUNGARY
Peter Vari
National Institute of Public Education
Centre for Evaluation Studies
Dorottya u.8, PF 701/420
Budapest 1051

INDONESIA
Jahja Umar
Ministry of National Education
Examination Development Center
Jalan Gunung Sahari Raya – 4
Jakarta Pusat, 1000 Jakarta

IRAN, ISLAMIC REPUBLIC OF
Abbass Rahiminezhad
Institute for National Research
Hojjat Doost Alley Naderi St.
196 Keshavarz Blvd.
Tehran
APPENDIX A: ACKNOWLEDGEMENTS

ISRAEL
Ruth Zuzovsky
Tel Aviv University
School of Education
Center for Science and Technology Education
Ramat Aviv, Tel Aviv 69978

ITALY
Anna Maria Caputo
Istituto Nazionale per la
Valutazione del Sistema dell’Istruzione (CEDE)
Borromini 5 – Villa Falconieri
Frascati (Roma) 00044

JAPAN
Yuji Saruta
National Institute for Educational Research (NIER)
6-5-22 Shimomeguro
Meguro-ku, Tokyo
153-8681

Hanako Senuma
National Institute for Educational Research (NIER)
6-5-22 Shimomeguro
Meguro-ku, Tokyo
153-8681

JORDAN
Tayseer Al-Nhar
National Center for Human Resources Development
P. O. Box 560
Amman 11941

KOREA, REPUBLIC OF
Chung Park
Korea Institute of Curriculum & Evaluation (KICE)
25-1 Samchung-dong
GhongRo-Gu, Seoul
110-230
LATVIA
Andrejs Geske
University of Latvia
IEA National Research Center
Jurmalas Gatve 74/76, Rm 204A
Riga LV-1083

LEBANON
Leila Maliha Fayad
Ministry of Education
The Educational Center for Research and Development
Dekwanen, Beirut

LITHUANIA
Algirdas Zabulionis
Ministry of Education and Science
National Examination Center
M. Katkaus 44
Vilnius LT2051

MACEDONIA, REPUBLIC OF
Anica Aleksova
Ministry of Education and Science
Bureau for Development of Education
Ruder Boskovic St bb
1000 Skopje

MALAYSIA
Azmi Zakaria
Ministry of Education
Educational Planning and Research Division
Level 2, Block J South
Pusat Bandar Damansara, Kuala Lumpur
50604

MOLDOVA, REPUBLIC OF
Ilie Nasu
Ministry of Education and Science
University A Russo
Str. Puschin 38
Balti 3100
MOROCCO
Mohamed Sassi
Direction de l’Évaluation du Système Educatif
Ministère de l’Éducation Nationale
Innovations Pédagogiques
32 Boulevard Ibn Toumert
Place Bob Rouah, Rabat

THE NETHERLANDS
Martina Meelissen
University of Twente
Centre for Applied Research in Education (OCTO)
PO Box 217
7500 AE Enschede

NEW ZEALAND
Megan Chamberlain
Ministry of Education
CER Unit-Research Division
45-47 Pipitea Street
Thorndon, Wellington

Fiona Sturrock
Ministry of Education
CER Unit-Research Division
45-47 Pipitea Street
Thorndon, Wellington

NORWAY
Liv Sissel Grønmo
University of Oslo ILS
Postboks 1099 Blindern
0316 Oslo 3

PALESTINIAN NATIONAL AUTHORITY
Ola Khalili
Ministry of Education
Assessment Center
Box 719
Ramallah – West Bank
PHILIPPINES
Vivien Talisayon
University of the Philippines
TIMSS 2003 Coordination Office
Vidal Tan Hall
Diliman, Quezon City

ROMANIA
Gabriela Noveanu
Institute for Educational Sciences
Evaluation and Forecasting Division
Revoltiei B1. C7/7
Bucharest Ro-70732

RUSSIAN FEDERATION
Galina Kovalyova
Center for Evaluating the Quality of Education
Institute of General Secondary Education
Russian Academy of Education
Ul. Pogodinskaya, 8 - Moscow 119905

SAUDI ARABIA
Ali Alhakami
Ministry of Education
Center for Educational Development
PO Box 102298
Riyadh, 11675

SCOTLAND
Jo MacDonald
Scottish Executive Education Dept Research
Economic and Corporate Strategy Unit
1B (South) Victoria Quay
Edinburgh EH6 6QQ

SERBIA
Slobodanka Milanovic-Nahod
Institute for Educational Research
Dobrinjska 11/lll
PF 546
11001 Belgrade
APPENDIX A: ACKNOWLEDGEMENTS

SINGAPORE
Kok Leong Boey
Research and Evaluation Section
#15-31 MOE Building
1 North Buona Vista Drive
138675 Singapore

SLOVAK REPUBLIC
Jozef Kuraj
National Institute for Education
P O Box 26, Pluhova 8
Bratislava SK – 830 00

SLOVENIA
Barbara Japelj
Educational Research Institute
Gerbiceva 62
PO Box 76
Ljubljana 1000

SOUTH AFRICA
Vijay Reddy
Human Sciences Research Council (HSRC)
134 Pretorius Street
Private Bag X07
Pretoria 0001

SWEDEN
Jan-Olof Lindstrom
Department of Educational Measurement/ TIMSS
Umeå University
Enheten for pedagogiska matningar
Samhällsvetarhuset, 90187 Umeå
SYRIA
Aychoua Ishak
Ministry of Education
Damascus

TUNISIA
Mejib Ayed
CNIPRE
130 Boulevard du 9 Avril 1938
Tunis 1006

USA
Patrick Gonzales
National Center for Education Statistics
US Department of Education
1990 K St., NW Rm 9071
Washington, DC 20006

YEMEN, REPUBLIC OF
Omar Ba-Fadhel
Center for Educational Research and Development
Ministry of Education
General Market (Nokom),
Sana‘a 23049

Benchmarking Participants

Basque Country, SPAIN
Josu Sierra
ISEI-IVEI
Asturias 9
Bilbao, Basque Country 48015

State of Indiana, USA
Carole Gallagher
Division of Assessment
Indiana Department of Education
Room 229, State House
Indianapolis, IN 46204
Ontario Province, CANADA
Francine Jaques
Education Quality and Accountability Office
2 Carlton Street
Suite 1200
Toronto, Ontario M5B 2M9

Québec Province, CANADA
Serge Baillargeon
MEQ Direction de la Sanction des Études
1035 rue de la Chevrotière
13e Étage
Québec, PQ G1R 5 A5