

# PIRLS 2001

43rd IEA General Assembly

Marrakech, Morocco  
7-10 October 2002

# PIRLS: Scope

- Grade 4
- 35 Countries
- Data Collection 2001
- 135,000 Students
- 5,400 Schools



# PIRLS: Project Team

- PIRLS International Study Center at Boston College
- IEA Secretariat
- IEA Data Processing Center
- Statistics Canada
- Educational Testing Service
- National Foundation for Educational Research in England and Wales

# PIRLS: Student Population

Target Population: “Upper of Two Adjacent Grades with Most 9-year-olds”

– Fourth Grade in Most Countries

- Transition from Learning to Read to Reading to Learn
- Complements TIMSS Mathematics and Science at Fourth Grade
- Complements OECD’s PISA 2000 - Reading Literacy among 15-year-olds

# PIRLS: Countries

Argentina

Belize

Bulgaria

Canada

Colombia

Cyprus

Czech Republic

England

France

Germany

Greece

Hong Kong

Hungary

Iceland

Iran, Islamic Rep.

Israel

Italy

Kuwait

Latvia

Lithuania

Macedonia

Moldova

Morocco

Netherlands

New Zealand

Norway

Romania

Russian Federation

Scotland

Singapore

Slovak Republic

Slovenia

Sweden

Turkey

USA



BOSTON  
COLLEGE

*Progress in International Reading Literacy Study*

**PIRLS 2001**

# PIRLS: Components

- PIRLS “Main” Survey
  - Reading Comprehension
  - Background Questionnaires
- RLS 10-Year Trend Study
- Encyclopedia of Reading Education

# **PIRLS: Assessment of Reading Comprehension**

- **PIRLS Framework**
  - Purposes: Literary and Informative
  - Range of Comprehension Strategies
- **Nine Rotated Booklets**
  - Two 40-minute Sections Each
- **Constructed-Response Items (50%)**
- **Full Color Reader**

# **PIRLS: RDG (Reading Development Group)**

**Marilyn Binkley (United States)**

**Karl Blueml (Austria)**

**Sue Horner (England)**

**Pirjo Linnakyla (Finland)**

**Martine Remond (France)**

**Keen See Tan (Singapore)**

**William Tunmer (New Zealand)**



# PIRLS: Background Questionnaires

- Home/Parents
- Students
- Teachers
- Schools



# **PIRLS: Questionnaire Development Group**

**Ivana Krizova (Czech Republic)**

**Mike Marshall (Canada)**

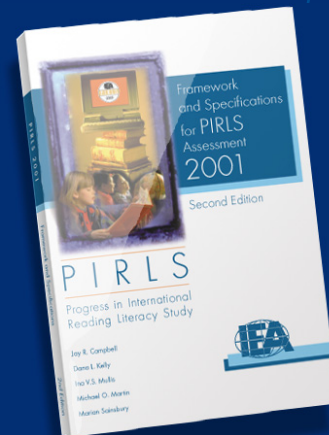
**Monica Rosen (Sweden)**

**Graham Ruddock (England)**

**Maurice Walker (New Zealand)**

# PIRLS: Field Test

- 31 Countries participated
- Extensive analyses of field-test data
- Tests and questionnaires revised for Main Survey
- Second edition of PIRLS framework



# **PIRLS: Preparation for Main Data Collection**

- Instruments and manuals distributed to countries
- Test booklets, questionnaires, and manuals translated
- Translations verified by IEA and Berlitz
- Scoring guides finalized and training papers assembled

# PIRLS: Manuals and Training for Main Data Collection

- Data Collection
  - School Coordinators
  - Test Administrators
- Data Entry
- Constructed-Response Scoring

# PIRLS: Reliability of Constructed-Response Scoring

- **Within-country:** for each item, a random sample of 200 responses was double scored
- **Cross-country:** in most countries, a random sample of 200 responses from English-speaking countries was double scored for half the items

# PIRLS: Quality Assurance Site Visits

- International Quality Control Monitors (QCMs)
  - QCMs recruited and trained
  - Visited 10% of schools
  - Observed testing sessions and interviewed NRCs
  - Data collection very successful - documented in Technical Report
- National Quality Assurance Program

# **PIRLS: Technical Report**

## **Chapters 1-7 Posted on Web**

- 1 - Overview of PIRLS
- 2 - Developing Assessment and Scoring Guides
- 3 - Developing Background Questionnaires
- 4 - Translating Instruments
- 5 - Sampling Design
- 6 - Survey Operations
- 7 - Quality Assurance



# Published PIRLS Encyclopedia

## Profile of Reading Education in Each Country

- Demographic Profile
- Education System
- Teachers and Teacher Education
- Reading Curriculum and Instruction
- Literacy Programs
- Assessment

# PIRLS: Database Construction and Analysis

- DPC Extensive Checks
- Sampling Adjudication
  - December 2001
  - April 2002
- Scaling
  - PIRLS
  - RLS 10-Year Trend



# PIRLS: International Report

- NRC Meeting Review Prototype Report  
March 2002, Athens, Greece
- RDG Meeting - Scale Anchoring  
September 2002, Paris, France
- NRC Meeting - Review Draft Report  
December 2002, Istanbul, Turkey
- Release Published Report  
April 8, 2003, Boston, USA

# **PIRLS: International Report**

## **Introduction**

**Chapter 1 International Student Achievement  
in Reading**

**Chapter 2 Average Achievement in Reading to  
Acquire and Use Information and for  
Literary Experience**

**Chapter 3 Performance at International  
Benchmarks**

**Chapter 4 Literacy Related Activities in the  
Home**

# **PIRLS: International Report (cont.)**

**Chapter 5 School Curriculum and Organization  
for Teaching Reading**

**Chapter 6 Teaching and Reading Instruction**

**Chapter 7 School Contexts**

**Chapter 8 Student's Reading Attitudes, Self-  
Concept, and Out-of-School-  
Activities**

# PIRLS: Preliminary Findings

## Parents' Estimates How Well Children Performed Literacy Activities When Started School

	<u>Average Achievement</u>	<u>Average % of Students</u>
Very Well	537	21
Moderately Well	511	33
Not Very Well	491	29
Not At All	479	17

# PIRLS: Preliminary Findings

## Early Home Literacy Activities

	<u>High</u>	<u>Medium</u>	<u>Low</u>
Average Achievement	520	499	481
Average % of Students	52	35	13

## Home Educational Resources

	<u>High</u>	<u>Medium</u>	<u>Low</u>
Average Achievement	548	503	443
Average % of Students	13	74	12

# PIRLS 2006

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# PIRLS 2006: Purpose

- **Grade 4**
  - Trends for 2001 Participants
  - Baseline Data for New Countries
- **Assessment of Reading Comprehension**
- **Background Questionnaires**

# **PIRLS 2006: Schedule**

- **First NRC Meeting - September 2003**
- **Develop Instruments - October 2004**
- **Field Test - April 2005**
- **Data Collection - April to June 2006**
- **International Report - November 2007**