

# Women in Physics:

## Second IUPAP International Conference on Women in Physics

Edited by

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This volume is the latest entry in AIP's Conference Proceedings series, and it provides a fascinating glimpse of the issues and challenges facing women physicists today. The First IUPAP International Conference on Women in Physics was held in 2002. The primary purpose of that event was to understand the severe under-representation of women worldwide and to develop strategies to increase their participation in physics.

Three years have passed and now the Second IUPAP International Conference (held May 23-25, 2005 in Rio de Janeiro, Brazil) has analyzed the progress that was made in the intervening years. This work reports on that analysis, examining the following topics and discussing the barriers and the strategies that have been successful in overcoming them:

- Attracting Girls into Physics
- Launching a Successful Physics Career
- Getting Women into the Physics Leadership Structure Nationally and Internationally
- Improving the Institutional Climate for Women in Physics
  - Learning from Regional Differences
  - Balancing Family and Career

Besides serving as a checking point for recent progress, this volume shares the experiences gained in the process by women in each of the many countries represented at the conference. The book also offers a number of practical suggestions on how to improve the situation of women in physics at the individual and global level.

Readers will find in this volume papers from the invited speakers, summaries of the conclusions of the breakout sessions, country papers, abstracts of the scientific posters, and a paper summarizing the results of a survey of the conference attendees in Brazil.

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$$H_{34}^{(1)} = H_{43}^{(1)} =$$

$$= e \mathcal{E} \left( \frac{1}{2a_0} \right)$$

$$\times \int_0^\infty r^4 \left( 2 - \frac{r}{a_0} \right) dr$$

$$\exp \left( -\frac{r}{a_0} \right) dr$$

$$K^2 - \frac{2m}{\hbar^2} \chi(\sqrt{b^2 -$$