



# Women Physicists Networking in Taiwan

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# Abstract

- Working Group on Women in Physical Society, R. O. C. in Taiwan was established ten years ago. Since then It established the women physicists networking in Taiwan to promote the basic science in female students. I will summarize the past ten year's activities and achievement, as well as statistics of women physicists and female physics students.

# Introduction of PSROC

- The Physical Society of the Republic of China (PSROC) was founded in 1958.
- The objectives of the PSROC are to advance and diffuse knowledge of physics.

# Organization

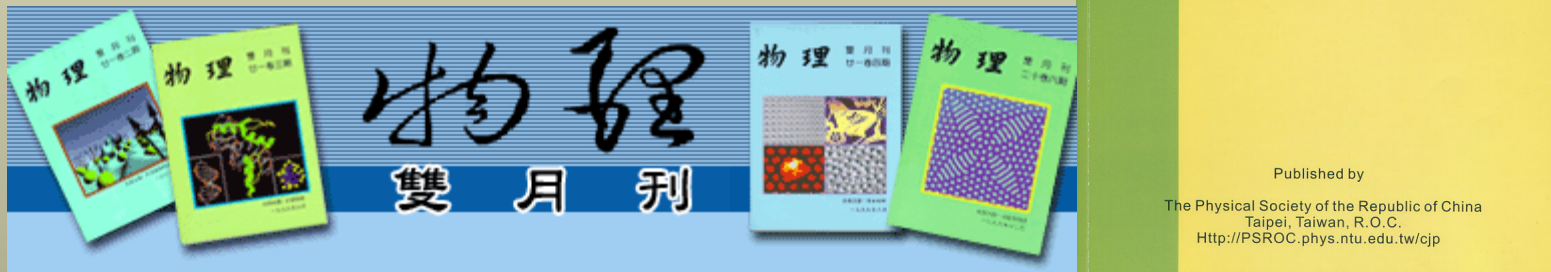


# Membership

- The membership of the PSROC has grown steadily since the society was founded. The society currently has about 2,310 members . (including 315 permanent , 456 faculty and 1,539 students members)
- The PSROC draws its members mainly from academic community, research institutions, and industry.
- The academics have the largest share more than 60% of the membership.

# Publications

- PSROC publishes “Chinese Journal of Physics”, a bimonthly research journal in English. It has been included in the Science Citation Index.



- The PSROC also publishes another bimonthly journal in Chinese called Physics, which is similar to The Physics Today published by the American Institute of Physics.

# Professional Conferences

- **General Meeting**

PSROC holds a general meeting once every year. The number of papers presented in the meeting reached around 2049 in 2011.

- **National Physics Symposia**

PSROC sponsors various symposia in the field of physics including Particle Physics, Nuclear Physics, Statistical Physics, Optics, Condensed Matter Physics, etc.

- **International Symposia**

- PSROC organizes “Taiwan International Conference on Superconductivity” once every two years.
- This conference continues to grow in international scope and popularity. PSROC has also sponsored several conferences supported by the International Union of Pure and Applied Physics (IUPAP) .



# International Exchanges

- The PSROC is a member society of IUPAP, and of the Association of Asia Pacific Physical Societies ( AAPPS ).
- The PSROC signed reciprocal agreements with
  - The American Physical Society
  - The Physics Scientific Section of The Union of Czech Mathematicians and Physicists
  - The Latvian Physical Society
  - The Lithuania Physical Society
  - The Slovak Physical Society
  - The Polish Physical Society
  - The Physical Society of Japan
  - The Mongolian Physical Society
  - The Indonesian Physical Society
  - The Korean Physical Society.
- These agreements allow PSROC members to participate in meetings held by these physical societies and subscribe to their journals at the membership rates.



***Working Group on Women in  
Physical Society, R. O. C.***

Reference:

# Status of Women in Physics at Taiwan from the View of Quantity and Quality

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## **Our Missions**

- (1) To initiate and implement exchange programs among professional female scientists, including academic resource information and career development.
- (2) To support the female education and promote the new generation of female physicists.
- (3) To institute female-friendly policies and regulations which will be beneficial to both male and female physicists.
- (4) To strengthen the international collaboration on humanity within the scientific community.

# Goals and Actions

## (1) Increasing the Number of Female Students:

Increase the number of female students in physics and related departments in order to reach a critical mass for changes in peer interactions and departmental atmosphere.

## (2) Creating a Better Environment:

Attention should be paid to reducing the unfriendly factors that discourage female students' willingness to stay in physics, especially for graduate students.

## (3) Establishing Institutional Support:

Supporting facilities should be built to meet the need to balance family and career, such as increasing accessible public day-care centers for children and seniors.

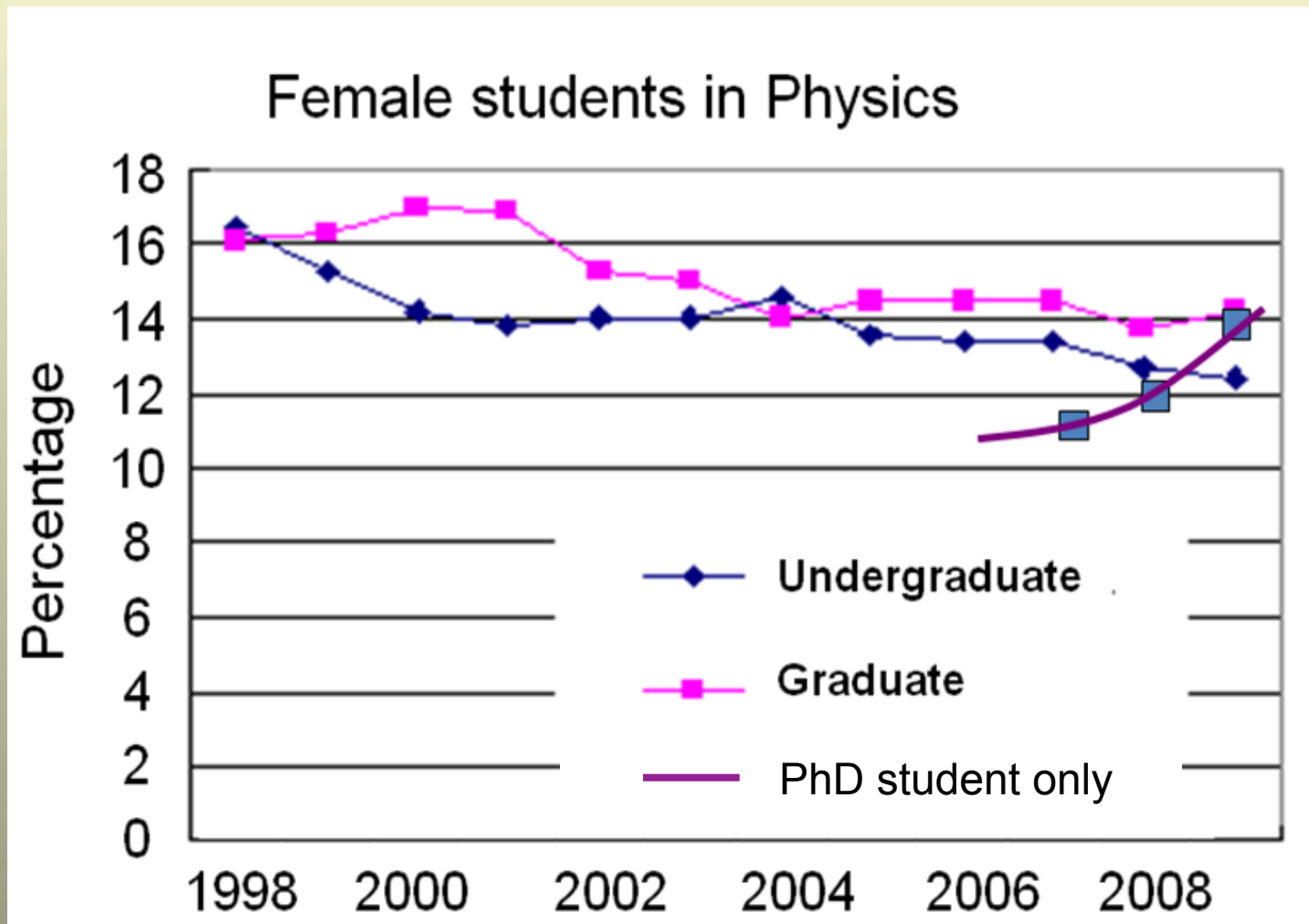
#### (4) Raising Awareness of Gender Issues:

Public awareness of Taiwanese women's current social and cultural burdens and family status is crucial to the understanding and support of gender equity in many professions including physics.

(5) Building database of the proportion of male to female students, graduates, faculty

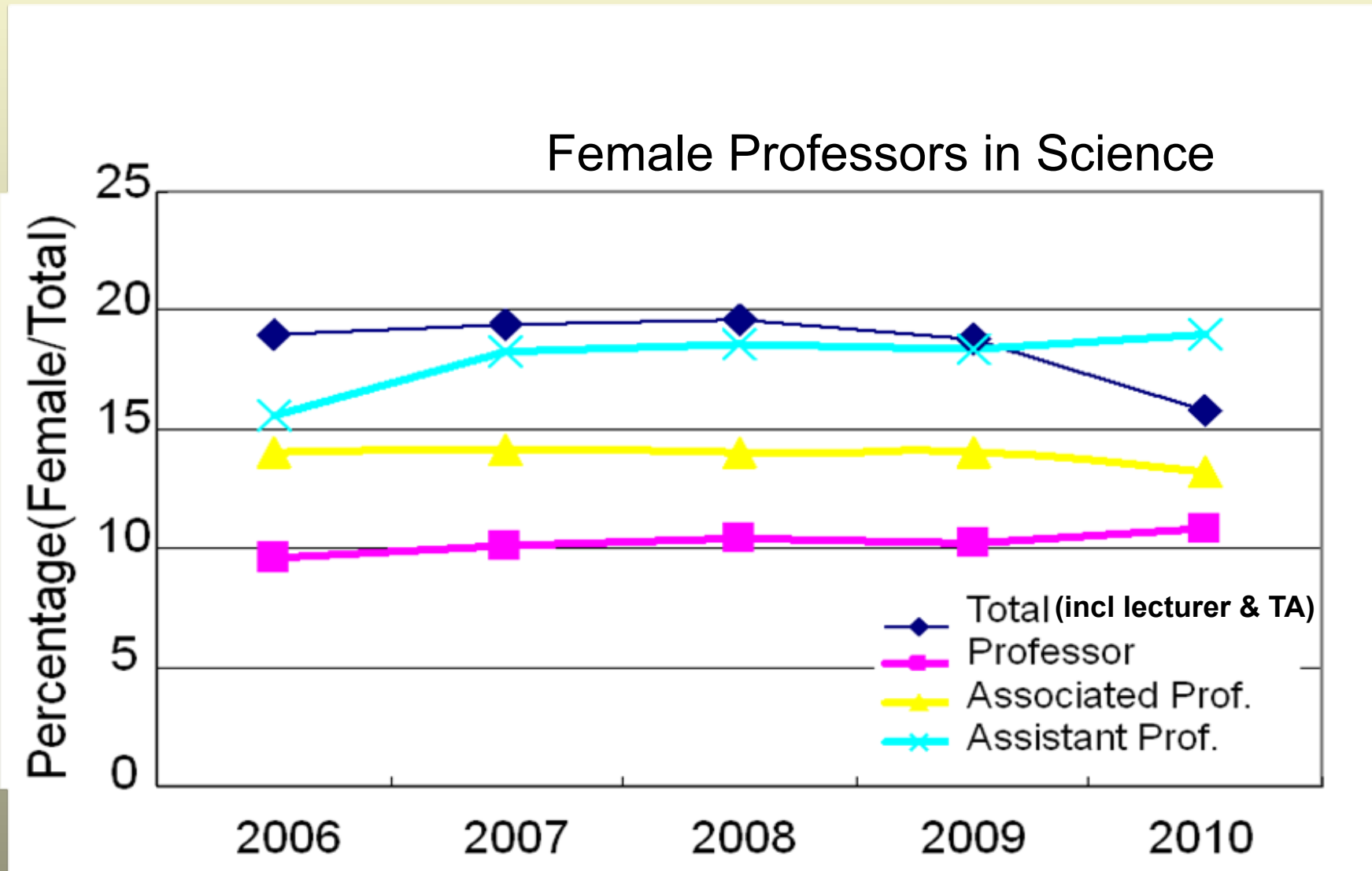
(6) Babysitting and Children Care programs for conferences

## I. Recent Status of Female Undergraduates/Graduates in Physics



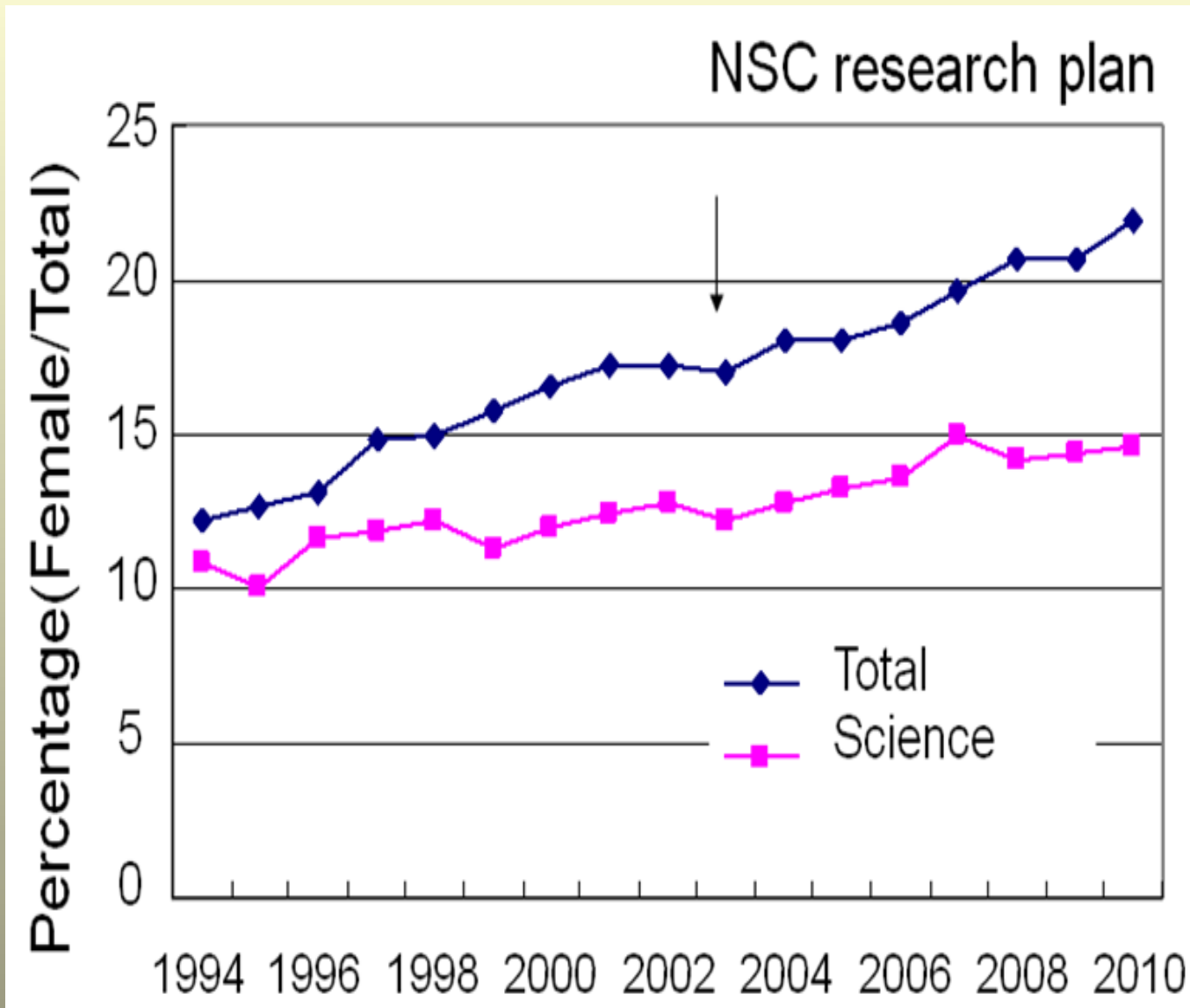
Recent status of physics female undergraduates and graduates in Taiwan

## II. Recent Status of Female Professors in Sciences



Recent status of female Professors in science





**The percentage of approved research plans for female scientists**

The important work:

Attracting Females to physics  
and helping them develop  
a successful physics career

### III. Status of Working Group on Women in Physics (WGWIP in Taiwan)

1. The WGWIP was registered to the Physical Society in Taipei in 1999.
2. The WGWIP was formally announced at the 2001 annual assembly of the Physical Society in Taipei.
3. The group was promoted into a formal committee under the organization of the Physical Society in Taipei in 2003.
4. The current committee members include 7 female and 2 male members.
5. The regular activities of WGWIP include:
  - (1) **Functional meetings** of WGWIP are held regularly.
  - (2) **The Wu Chien-Hsiung Scholarship** is awarded yearly to 3 outstanding female graduate students in physics.
  - (3) **Annual symposium** is held for the female physicists since 2002 (note: it is combined with the Symposium for female Chemists biyearly).
  - (4) **Workshops of “The Challenges for Physicists”** are held yearly since 2007 for senior undergraduate and graduate students.

# Functional meetings

- Twice per year for committee member
- Work communication and discussion
- Consulting group – data base established
- Web site for Chinese and English  
<http://psroc.phys.ntu.edu.tw/wgwip/>
- research plan, status survey

# Wu Chien-Hsiung Scholarship

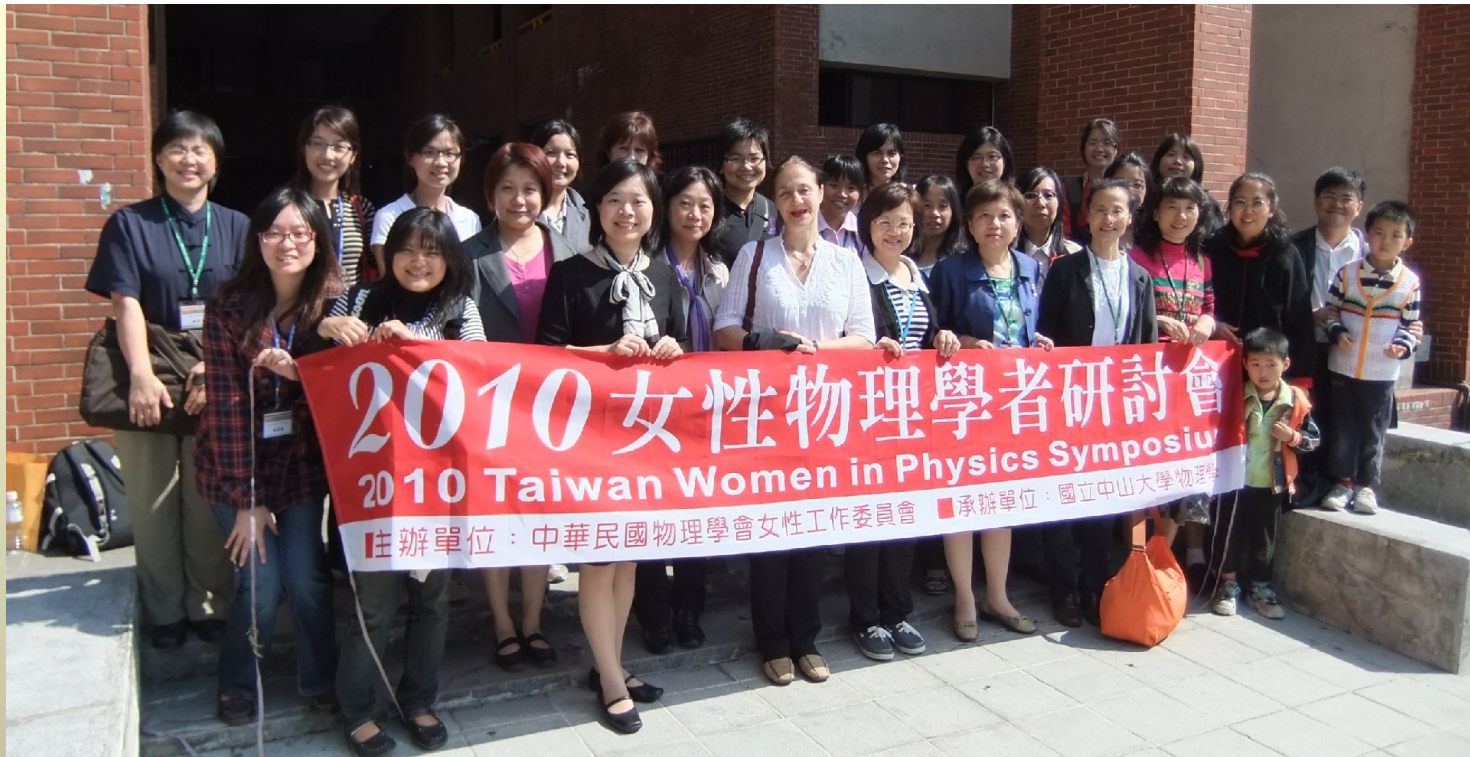
- Since 2003
- Now is nine<sup>th</sup>
- 3 Winners invited speech in a special session of Annual meeting
- Winners share experience in workshop or symposium
- Trace winners' development in her Physics career

# Annual symposium

- Since 2002
- Held for female physicists and Chemists.
- From 2006, even year for only physicists, odd year combined with the Symposium for Chemists.
- Invited speech to share experience and professional skills



**How to balance between the family life and career development**



- ☀ 2010 10/30~10/31 National Sun Yat-sen University
- ☀ 72 attendee (including Dr. Barbara Sandow, Chair of IUPAP Working Group on Women in Physics)



# “The Challenges for Physicists”

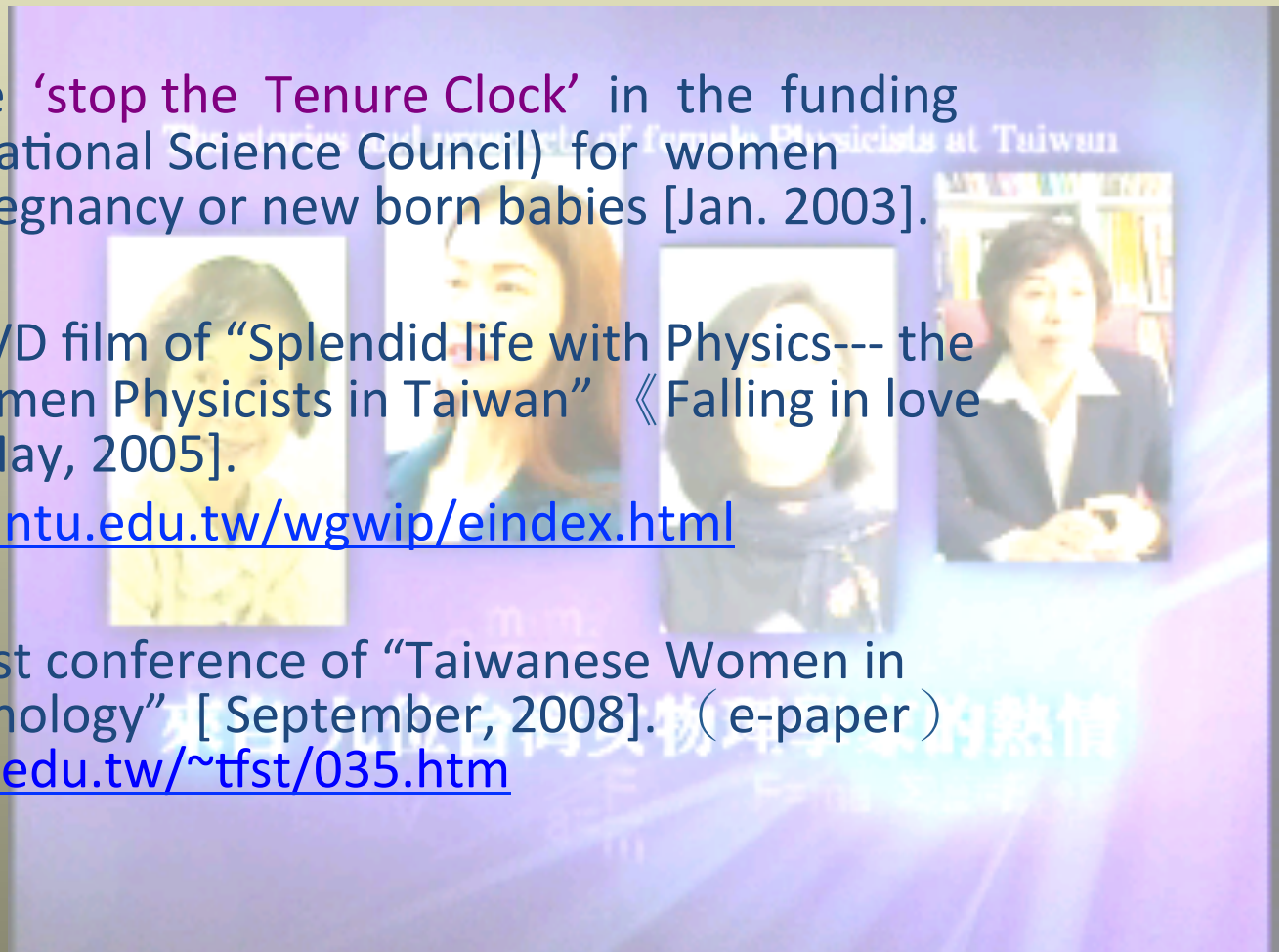
- Since 2007
- 5/15 /2010 at National Chung Hsing University
- 330 attendee of college student, Senior high school and students are also invited





# Milestone of the WGWIP in Taiwan

- (1) Setting up the **Wu Chien-Hsiung Scholarship** sponsored by the Physical Society to encourage and support the outstanding female graduate students in physics [Jan. 2003].
- (2) Promoting the **'stop the Tenure Clock'** in the funding policy by NSC (National Science Council) for women physicists with pregnancy or new born babies [Jan. 2003].
- (3) Producing a DVD film of "Splendid life with Physics--- the Stories of the Women Physicists in Taiwan" 《Falling in love with Physics》 [May, 2005].  
<http://psroc.phys.ntu.edu.tw/wgwip/eindex.html>
- (4) Holding the first conference of "Taiwanese Women in Science and Technology" [ September, 2008]. ( e-paper )  
<http://www2.tku.edu.tw/~tfst/035.htm>



# 《 Falling in love with Physics 》

- 15 mins Video film produced in 2009
- These are nine stories of passion and inspiration for female Physicists in Taiwan.
- [http://www.youtube.com/watch?v=NAu6u4nfO\\_s&feature=player\\_embedded](http://www.youtube.com/watch?v=NAu6u4nfO_s&feature=player_embedded)



The followings are some milestones about the status of women in physics in Taiwan:

(a) Prof. Show-Feng Tsai was appointed as the first female Dean of Student Affairs at National Sun-Ya-Sen University in 2002.

(b) Dr. L. Chyong Chen was awarded the NSC Excellent Research Award as the first women physicist awarded.

(c) Prof J. Raynien Kwo was elected in 2008 as the first female President of the Physical Society R.O.C. in Taiwan



## ACKNOWLEDGMENTS

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## REFERENCES

[1] S. N. Yang, Physics Bimonthly (in Chinese) 21, 605 (1999).

[2] J. G. Lin, M. F. Tai, H. M. Wu and Y. C. Kao, The Proceeding of the IUPAP International Conference on Women in Physics, Paris, France, p.145 (2002).

[3] M. F. Tai, Physics Bimonthly (in Chinese), 23, 378 (2001).

# e-News of Taiwanese Female Scientists & Technologists



- <http://www2.tku.edu.tw/~tfst/039.htm>
- 性別與科技新聞|特寫與群像|科技人論壇|科技會議與活動報導|好文/好書推薦|事求人•人求事|相關網站連結
- News of Gender and Science / Special Report and Portrait/ Forum in scientist / Conference and Activities in Technologies/ Recommend articles and books/ Job Searching/ Related website links

## Actions from AAPPS ICWIP

- On Nov 13-14, 2010, Shanghai, the Association of Asia Pacific Physical Societies sponsored the AAPPS 2nd Workshop on Women in Physics.
- Three panel discussions were held, and as a result the following recommendations were proposed for approval by the AAPPS Council.

# Recommendations from AAPPS ICWIP

- AAPPS request all Member Societies to **establish their own WGWIP**.
- Member Societies should delegate their WGWIP to convene meetings to examine the issues of women in physics at least annually, and **collective decision in partnership with male colleagues** is essential for the successful implementation of any actions to improve the representation of women in physics to realize the full human potential for optimized physics discovery and innovation.
- Member Societies should **increase its range of interaction** with all sectors of society to include schools, industry and government agencies, so that physics can meet all walks of life and attract girls and boys alike, thus increasing the potential participation of women in physics.
- The results of this and all future workshops should be **disseminated through all possible media**. Interactive sessions with the media should be envisaged for future WGWIP meetings at AAPPS conferences.



Thank you for your kind attention!

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