



お茶の水女子大学  
Ochanomizu University

***Toshiko Yuasa Laboratory Ceremony***

**2009 05 21 in KEK**

***Ochanomizu University***  
***and***  
***Dr. Toshiko Yuasa***

**Thanks to KEK and CNRS**

***Ochanomizu University***

***President***

***Sawako Hanyu***



# *1) Ochanomizu University*

## *As a base for nurturing women researchers.*

- **Established in 1875 as Tokyo Women's Normal School , the first national higher educational institute for women.**
- **Fostered many pioneering women scientists**
- **Produced prominent women scientists including Dr. Toshiko Yuasa**
- **Long-standing Tradition of Pioneering Research Accomplishments by Ochanomizu Alumnae**



# The First Female Doctor of Science in Japan

## *Kono YASUI* (1880-1971)



(in 1927)

Born in Kagawa Prefecture

1898 - Entered Women's Higher Normal School (Science Course).

1911 - Delivered a thesis in "Annals of Botany" (England). It was the first thesis on science that a Japanese female researcher delivered abroad.

1919 - Became Professor of Tokyo Women's Higher Normal School

1927 - Received Doctorate of Science, becoming the first woman doctor in Japan.

### Quote

"I am satisfied as long as my works last through history."



# The First Woman to Enter an Imperial University

## *Chica KURODA* (1884-1968)

Born in Saga Prefecture

1902 - Entered Women's Higher Normal School (Science Course).

1913 - Entered Tohoku Imperial University (Faculty of Science). She was the first woman that entered an Imperial University.

1918 - Became Professor of Tokyo Women's Higher Normal School.

1929 - Awarded Doctorate of Science degree.

1953 - Granted a patent by research in quercetin.

### Quote

“Natural objects are honest. If you work hard on it, results always come back to you.”



At the laboratory  
(around 1942)

# The First Female Doctor of Agriculture in Japan: “Doctor of Tea”



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## *Michiyo TSUJIMURA* (1888-1969)



(in 1951)

**Born in Saitama Prefecture**

**1909 – Entered Tokyo Women’s Higher Normal School (Science Course) and was taught by Professor Kono YASUI.**

**1913 – Graduated Tokyo Women’s Higher Normal School and became a teacher of Yokohama Women’s Higher School.**

**1922 - Started research on vitamins at Tokyo Imperial University, Faculty of Medicine**

**1923 - Entered Rikagaku Institute. Discovered that green tea contains vitamin C.**

**1932 – Received Doctorate of Agriculture degree, becoming the first Doctor of Agriculture as a woman**

**1949 - Became Professor of Ochanomizu University**

**1950 - Became the first Dean of the Faculty of Home Economics of Ochanomizu University**



# The First International Female Physicist

## *Toshiko YUASA* (1909-1980)



Professor Yuasa and students  
at a lunch meeting  
(in 1948)

Born in Tokyo

1927 – Entered Tokyo Women’s  
Higher Normal School (Science  
Course).

1940 - Studied in France with French  
government scholarship.

1943 - Awarded French Doctorate of  
Science degree.

1945 - Became Professor of Tokyo  
Women’s Higher Normal School.

### Quote

“The roots of the sciences come from  
the broad, abundant feeling of love.”

## 2) Toshiko YUASA



***“The roots of the sciences come from the broad, abundant feeling of love.”***

- **Dr. Yuasa’s family background**  
Mother - Talented in Japanese traditional arts  
Father – A scientist and an inventor
- **Dr. Yuasa’s childhood**  
Enrolled in the girls’ high school affiliated with Tokyo Women’s Normal School.  
Good at Japanese literature and essay writing.
- **Enrolled in Tokyo Women’s Normal School and majored in science.**



Passport photo in 1939

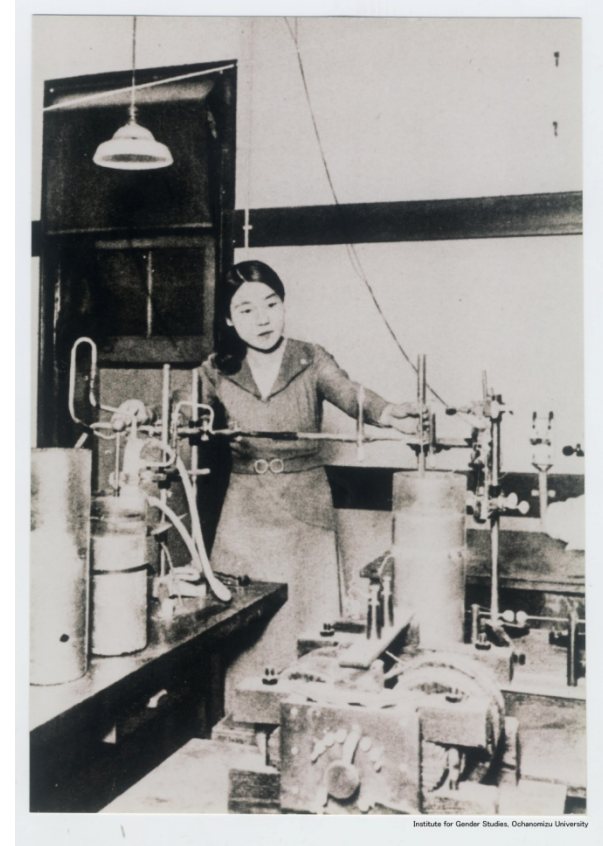
*“Being a physicist is my calling”*



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# *Studying at Tokyo Women's Normal School*

- **Enrolled in Tokyo Women's Normal School In 1927.**
- **Majored in science**
- **Studied math, physics and biology**
- **Fascinated with the profound order of nature**
- **Decided to be a physicist as her vocation**



**Measuring atomic spectrum of antimony at Tokyo University of Literature and science In 1933**





# *Encounter with Julio-Curie's*

## *research paper on artificial radioactivity*

### *Studying at Tokyo University of Literature and Science*

- **Enrolled in Tokyo University of Literature and Science as the first female student majoring in physics**
- **Wrote a graduation thesis entitled “ atomic and molecular spectroscopy” In 1931**
- **Started to work as a lecturer at Tokyo Woman's Christian University .**
- **Continued to work on her research at Tokyo University of Literature and Science.**
- **Encountered Dr. Julliot-Curie's research paper about artificial radioactivity**
- **Decided to go to France.**



## *3) Living in France* *Freedom of Soul*

- **Headed to France on January 26, 1940**
- **Interested in issues of war and peace**
- **Faced difficulties, but felt a freedom**
- **Made a great deal of effort to foster women researchers in Japan.**



**At the roof of College de France  
( Around 1941 )**

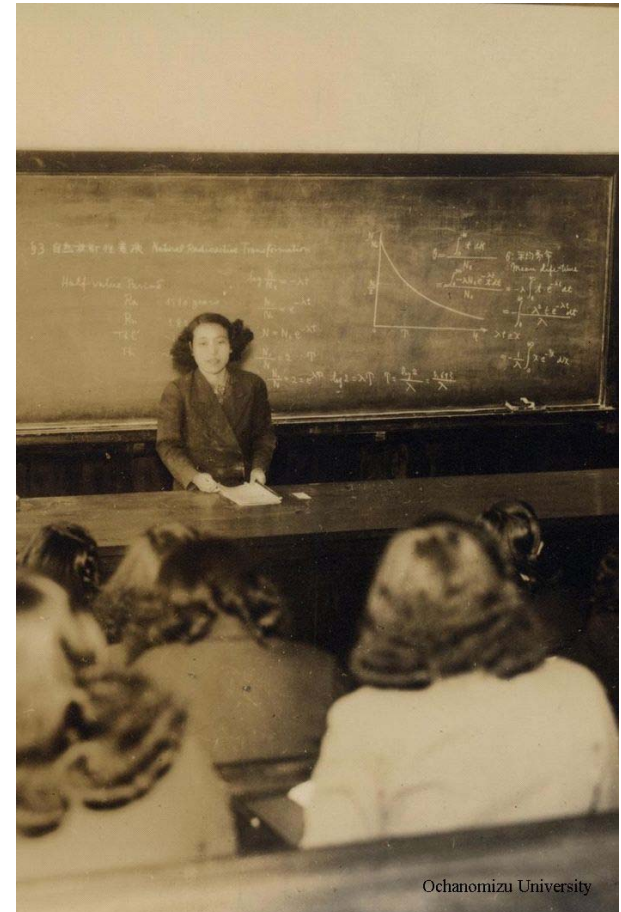


# *Homecoming*

## *Serving for Women in Science*

### *Anchoring in Japan (1945-1949)*

- **Teach at Tokyo “École Normale Supérieure” for women (Ochanomizu Univ.)**
- **Research at Nishina Laboratory of RIKEN**
- **Aimed at founding an advanced women’s university**
- **Established Ochanomizu University**



Ochanomizu University

around 1948

# 4) Ochanomizu University Update



お茶の水女子大学  
Ochanomizu University

Ochanomizu University is located in the central part of Tokyo.

- Student Body Undergraduate:2,166 Graduate:1,073



- 3 Faculties Letters and Education, Science, Human Life and Environmental Sciences

- 1 Graduate School Humanities and Sciences



- Ratio of Women in Staff (as of May 2009)

President, Trustee, Vice-presidents

33%

Professors, Associate Professors, Lecturers

45%

All faculty members(including Assistant Professors)

48%

Administrative staff

35%

- Ratio of Experienced Workers in Doctoral Program

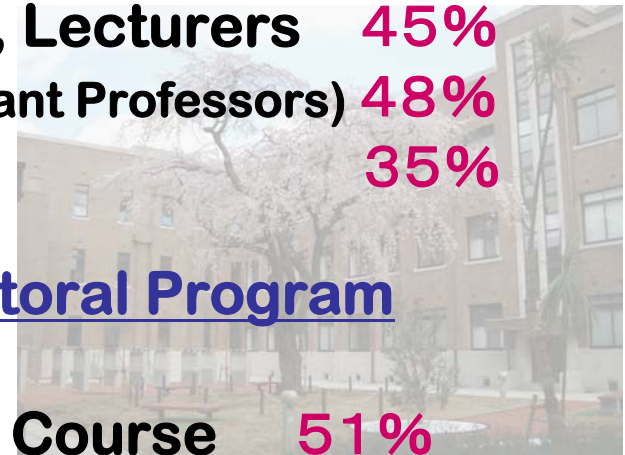
(in 2009)

Master Course

13%

Doctoral Course

51%





# ***Philosophy of Education & Research***

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To exist as “**a place where the earnest dreams will come true**” for all women motivated to study

# ***Objective of Education & Research***

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As a women’s university, to nurture women to be “**leaders**” in the global community



➤ ***Fostering leaders***

**through high-quality education  
as opinion leaders**

➤ ***International perspectives***

**in responding to the rapid globalization  
(and to the accelerated progresses to an  
information-oriented society)**

➤ ***Interdisciplinary approach***

**for flexible research skills compatible in a  
wide scope of fields and themes**

➤ ***Gender equality***

**through realizing “work-life balance”**



## Fostering female leaders

High-quality education as opinion leaders



## Gender equality

Realization of “work-life balance”



### Ochanomizu Model for the 21st Century

- Offering advanced liberal arts education integrated with both the humanities and sciences
- Fostering female leaders
- Fostering initiative female researchers
- Aid for girls' education in developing countries



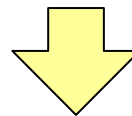
Dealing with rapid globalization and development of highly information-oriented society

## International perspective



Flexible research skills for studies in various fields and themes

## Interdisciplinary approach



Publicizing the “Model of fostering female leaders” to the world



# Dr. Yuasa's ever-lasting philosophy

## Liberal arts Education and Advanced Professional Education

“A genuine scientific mind leads to nature of the universe including art, literature and religion.”



Institute for Gender Studies, Ochanomizu University

**Tombeau de Mme Curie à Sceaux**  
Dr. Yuasa prayed for her soul laying  
white roses and carnations on her grave .  
(November 1, 1940)







# *Characteristics of Ochanomizu University*

- \* *Liberal Arts Education for the 21 century*
- \* *Constructing a base of support for female researchers*
- \* *Fostering young researchers*



# *Reference*

- **Ochanomizu University**  
<http://ocha.ac.jp/>
- **Ochanomizu University Digital Archives**  
<http://archives.cf.ocha.ac.jp/index.html>
- **Hommage à Toshiko Yuasa (CNRS)**  
[http://www.th.u-psud.fr/YUASA150/Yuasa\\_event/intro-en/profile.html](http://www.th.u-psud.fr/YUASA150/Yuasa_event/intro-en/profile.html)



*Thank you for your attention.*

***Sawako Hanyu  
President  
Ochanomizu University  
2009.5.21***