



***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)



Ochanomizu University

(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.

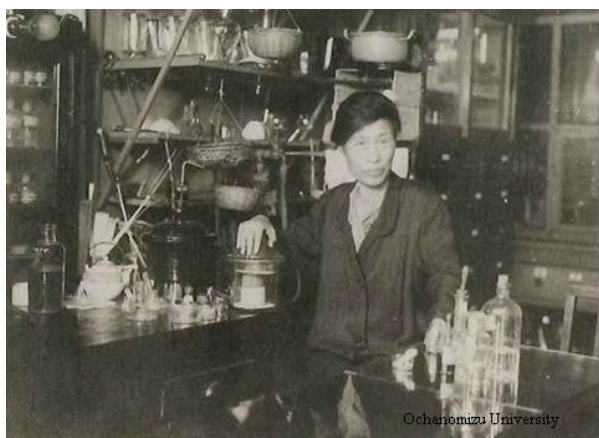
#### Quote

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



## The First Woman to Enter an Imperial University

### *Chica KURODA* (1884-1968)



Ochanomizu University

At the laboratory  
(around 1942)

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."

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



お茶の水女子大学  
Ochanomizu University

## *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



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Ochanomizu University

## *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



お茶の水女子大学  
Ochanomizu University

*“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

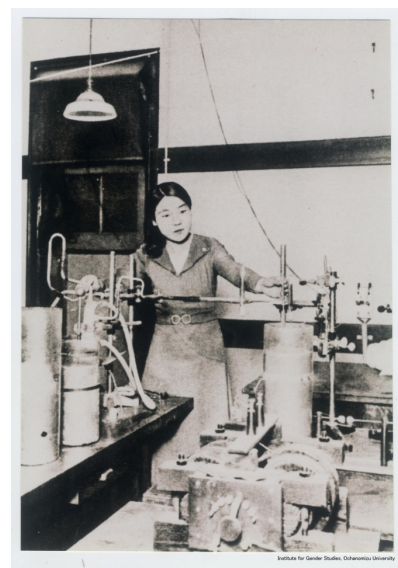
*“Being a physicist is my calling ”*



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Ochanomizu University

*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*



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## *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 Women’s University.
- Continued to work on her research at Tokyo University of Literature and Science.
- Encountered Dr. Joliot-Curie’s research paper about artificial radioactivity
- Decided to go to France.

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



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- 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



around 1948

## 4) Ochanomizu University Update



Ochanomizu University is located in the central part of Tokyo.

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



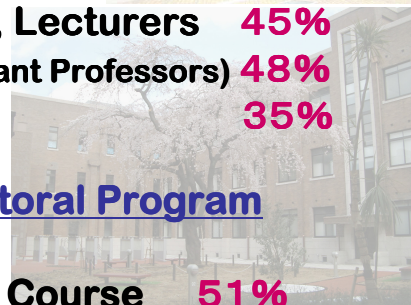
- **3 Faculties** Letters and Education, Science, Human Life and Environmental Sciences

- **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.”



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)



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*Thank you for your attention.*

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