

CONSPECTUS

Grounds

| | |
|---------------|------------------------|
| in Uji City | 218,022 m ² |
| in Kyoto City | 2,026 m ² |

Buildings

(in Uji City)

| | |
|---|-----------------------|
| main buildings | 11,786 m ² |
| ultra-high resolution high voltage electron microscope laboratory | 586 m ² |
| low temperature laboratory | 760 m ² |
| experimental station for fiber spinning processes | 218 m ² |
| experimental plant of petroleum chemistry | 147 m ² |
| microbial cultivation plant | 102 m ² |
| experimental plant for high pressure chemistry | 421 m ² |
| pilot plant of fiber processes | 420 m ² |
| pilot plant for ceramic chemistry | 323 m ² |
| central machine shop | 231 m ² |

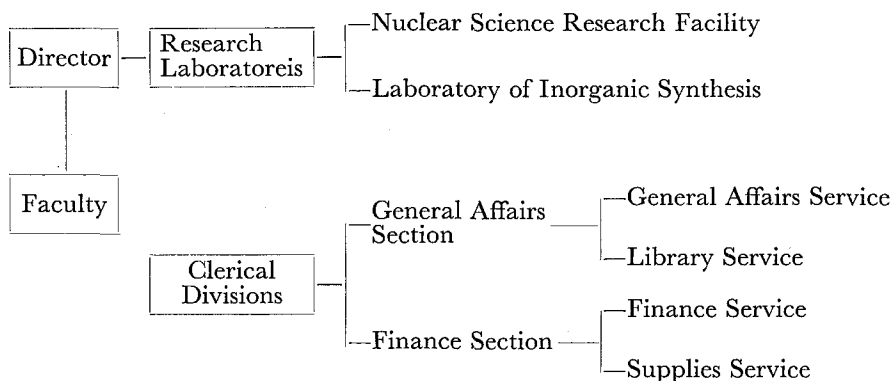
(in Kyoto City)

| | |
|-----------------------------------|----------------------|
| Nuclear science research facility | 1,186 m ² |
|-----------------------------------|----------------------|

Number of Personnel (Sep. 1, 1976)

| | fixed number | current number |
|--|--------------|----------------|
| professors | 22 | 22 |
| assistant professors | 22 | 16 |
| assistants | 42 | 42 |
| clerks | 51 | 51 |
| technicians | 41 | 41 |
| other employees | <u>4</u> | <u>1</u> |
| total | 182 | 173 |
| professors in charge of specific research | | 12 |
| assistant professor in charge of specific research | | 4 |
| part-time instructors | | 14 |
| visiting researchers | | 35 |
| part-time clerks | | 18 |
| postgraduates for | | |
| master courses | | 46 |
| doctor courses | | <u>33</u> |
| total | | 162 |

Organization



Laboratories and Professors-in-Charge

| research laboratory | professor-in-charge |
|---|---------------------|
| nuclear reaction | T. Yanabu |
| nuclear radiation | S. Shimizu |
| radiochemistry | T. Shigematsu |
| surface chemistry | T. Takenaka |
| powder and crystal chemistry | N. Uyeda |
| dielectrics | N. Koizumi |
| ceramic chemistry | M. Tashiro |
| solid state chemistry | T. Takada |
| organic unit reaction | S. Oka |
| high pressure chemistry | Y. Takezaki |
| petroleum chemistry | M. Okano |
| fiber chemistry | R. Kitamaru |
| polymer separation and characterization | H. Inagaki |
| polymer physical chemistry | M. Kurata |
| polymer crystallography | M. Kobayashi |
| physical chemistry of enzyme | T. Ooi |
| plant products chemistry | Y. Inouye |
| microbial biochemistry | T. Yamamoto |
| physiological activity | E. Fujita |
| molecular biology | M. Takanami |
| nuclear science | H. Takekoshi |
| inorganic synthesis | Y. Bando |

General Survey of Budget

1. current expenditure

| year | thousand yen |
|------|--------------|
| 1966 | 262, 546 |
| 1967 | 299, 882 |
| 1968 | 386, 657 |
| 1969 | 429, 996 |
| 1970 | 516, 684 |
| 1971 | 533, 761 |
| 1972 | 544, 865 |
| 1973 | 592, 560 |
| 1974 | 758, 722 |
| 1975 | 992, 105 |

2. grants

| year | government funds for scientific researches | grants from corporations | |
|------|---|--------------------------|------|
| | thousand yen | thousand yen | |
| 1966 | 3, 380 | 1, 140 | (7) |
| 1967 | 3, 670 | 1, 735 | (8) |
| 1968 | 32, 140 | 11, 917 | (12) |
| 1969 | 33, 865 | 8, 650 | (23) |
| 1970 | 11, 280 | 7, 312 | (25) |
| 1971 | 17, 490 | 5, 421 | (16) |
| 1972 | 22, 535 | 6, 640 | (19) |
| 1973 | 51, 762 | 5, 200 | (16) |
| 1974 | 44, 600 | 8, 397 | (20) |
| 1975 | 43, 370 | 7, 890 | (18) |

| year | scholarship grants | donators |
|------|--------------------|--|
| | thousand yen | |
| 1967 | 100 | Research Institute for Production Development |
| 1967 | 150 | Nippon Electric Glass Co., Ltd. |
| 1973 | 2, 500 | The Research Development Corporation of Japan |

3. patents obtained

| patent no. | date | title of inventions |
|--------------------------------|---------------|--|
| Japanese Pat. no. Sho-50-40408 | Jul. 28, 1975 | Production Method of Transparent High Permittive Glass-Ceramics |
| U.S. Pat. no. 3,959,406 | May 25, 1976 | Polyelectrolyte Composite of Poly- vinyle Alcohol Derivertives |

A HISTORY OF THE INSTITUTE

The Special Chemical Laboratory was set up in August, 1915, at the Faculty of Science of Kyoto Imperial University, which was renamed Kyoto University in October, 1947. The Laboratory, then headed by Professor Mitsuru Kuhara, devoted itself to the Study and Manufacturing of certain chemicals, for example salvasan, the supply of which became slack due to World War I. In such a situation the necessity of establishing a chemical research institute was keenly felt, and as a result the Institute for Chemical Research was found on October 4, 1926, with Professor Masumi Chikashige as Acting Director of the new institute. In March, 1927, Professor Masumi Chikashige was appointed as Director, and the Special Chemical Laboratory was placed under with the Institute for Chemical Research. Since Professor Chikashige's resignation as Director the fourteen chemistry professors of Kyoto University successively assumed directorship of the Institute.

Descriptions of the periods 1926-1951 and 1952-1966, are given in the Commemoration Volumes of the Silver Jubilee and the Fortieth Anniversary, so that the present volume gives only an outline of the development of the Institute and its main scientific achievements in the period from 1967 down to the present date.

1967.

- Mar. 1: Dr. M. Takanami was appointed professor in charge of the Laboratory of Molecular Biology.
- Mar. 17: Prof. I. Sakurada retired.
- Apr. 1: In accordance with Establishment Law No. 17, No. 18, Cabinet Order No. 96, and Ministry of Education Ordinance No. 11, No. 12 the fixed number of professors was revised to 20.
- Oct. 1: With the transfer of Prof. K. Ichikawa to the Faculty of Engineering, Dr. M. Okano was appointed professor in charge of the Laboratory of Petroleum Chemistry.
- Dec. 3: Prof. S. Kunichika was relieved of his post as Director.
- Dec. 4: Prof. W. Tsuji was appointed as Director.

1968.

- Jan. 1: Dr. T. Ooi was appointed professor in charge of the Laboratory of Physical Chemistry of Enzyme.
- Mar. 31: High Voltage Electron Microscope Laboratory was completed in Uji.
Prof. H. Yukawa was relieved of his post as concurrent professor.
- May 1: The Institute moved from Takatsuki to Uji City.
- June 12: Celebration of completion of the New Building.

1969.

- Mar. 31: Prof. R. Gotoh and Prof. M. Horio retired.

- Apr. 1: Prof. Tsuji was relieved from his post of chief of the Research Laboratory of Nuclear Science and Prof. T. Yanabu was appointed as Chief of the Laboratory.

1970.

- Mar. 31: Prof. R. Oda and Prof. K. Shishido retired.
Apr. 1: In accordance with the Ministry of Education Order No. 12 the fixed numbers of assistant professors and assistants were revised to 20 and 45, respectively.
Dec. 3: Prof. Tsuji was relieved of his post as Director.
Dec. 4: Prof. S. Kunichika was appointed as Director.

1971.

- Mar. 31: Low Temperature Laboratory was completed.
Apr. 1: Dr. T. Takenaka was appointed professor in charge of the Laboratory of Surface and Colloid Chemistry.

1972.

- Mar. 31: Prof. M. Ohno, Prof. S. Kunichika, and Prof. H. Takaki retired. On his retirement as professor, Prof. Kunichika was relieved of his post as Director.
Apr. 1: Prof. E. Suito was appointed as Director.
In accordance with the Ministry of Education Order No. 12 the fixed numbers of professors and assistants were revised to 21 and 44, respectively.
Nov. 13: Prof. O. Hayaishi was awarded with the Order of Culture.

1973.

- Mar. 16: Dr. Y. Inouye was appointed professor in charge of the Laboratory of Plant Products Chemistry.
Apr. 1: Under instruction of Ministry of Education the administration division of the institute was reorganized.
May 1: Dr. Y. Uemura was appointed professor in charge of the Laboratory of Nuclear Science.
May 20: Prof. Uemura died.
Nov. 16: Dr. S. Oka was appointed professor in charge of the Laboratory of Organic Unit Reaction.

1974.

- Mar. 31: Prof. E. Suito was relieved of his post as Director.
Apr. 1: Prof. Y. Takezaki was appointed as Director.
Prof. W. Tsuji retired.

1975.

- Mar. 1: A Microbial Cultivation Plant was set up.
Mar. 15: A Computer Center was established.
Apr. 1: Prof. E. Suito retired.

In accordance with the Ministry of Education Ordinance No. 8, the Laboratory of Inorganic Synthesis was attached to the Institute with Director Takezaki as acting chief of the Laboratory.

Under Instruction of the Ministry of Education the fixed number of personnel was revised as follows; 22 professors, 22 assistant professors, 41 assistants, 12 business officials, 73 employees, making a total of 170. The Laboratory of Surface and Colloid Chemistry and the Laboratory of Physical Chemistry of Polymers were renamed the Laboratory of Surface Chemistry and the Laboratory of Polymer Separation and Characterization, respectively.

- May 1: Dr. K. Takekoshi was appointed professor in charge of the Research Laboratory of Nuclear Science.
Prof. Takezaki was concurrently appointed as chief of the Laboratory of Inorganic Synthesis.

1976.

- Mar. 1: Dr. N. Uyeda was appointed professor in charge of the Laboratory of Crystal and Powder Chemistry.
Dr. R. Kitamaru was appointed professor in charge of the Laboratory of Fiber Chemistry.
- Mar. 16: Dr. Y. Bando was appointed professor in charge of the Laboratory of Inorganic Synthesis.
- Mar. 31: Prof. Hayaishi resigned his concurrent professorship.
Prof. Takezaki was relieved of his post as Director.
- Apr. 1: Prof. T. Shigematsu was appointed as Director.
Prof. T. Yanabu was relieved of his post as chief of the Research Laboratory of Nuclear Science, and Prof. K. Takekoshi was appointed as chief of the Laboratory.
- May 1: Prof. Takezaki was relieved of his post as chief of the Laboratory of Inorganic Synthesis, and Prof. Takada was concurrently appointed as chief of the Laboratory.
- Oct. 15: The commemoration ceremony for the Fiftieth Anniversary.
- Dec. 1: Publication of the Fiftieth Anniversary Volume.