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INTRODUCTION

This year, our Research Institute of Logopedics and Phoniatics attains its twentieth year, and this is the nineteenth issue of our Annual Reports.

Looking back over the past twenty years, our organization started in 1965 just as a single section of Speech Science. Six years later in 1971, a second section of Speech Physiology was established and our research activities expanded remarkably. Despite our continuous effort towards the further development of our organization, it took more than 10 years before a third section was added to our Institute. This third section, the Section of Speech Pathology, was established in 1983, and we have been broadening our research particularly in the study of the pathophysiology of voice and speech disorders. For the completion of our research organization, we are still proposing another section for research on speech perception.

In March, 1984, Professor Shuzo Saito retired from our University and moved to Kogakuin University, Tokyo. During the five year period of his professorship at our Institute, Professor Saito energetically directed the Section of Speech Science and established and completed our speech analysis-synthesis system. Upon his retirement, Dr. Shigeru Kiritani was made Professor of the Section of Speech Science in April, 1984. As the Associate Professor of the Section of Speech Science, Dr. Satoshi Imaizumi, a research associate of Kinki University, was engaged. We engaged Dr. Seiji Niimi, formerly a research associate of our Institute, as an Associate Professor of the Section of Speech Physiology.

In addition to these changes in personnel, the floor space of our Institute has recently expanded to include several new rooms in the same building.

Thanks to support from a Grant-in-Aid for Scientific Research from the Ministry of Education, we have been successfully establishing our image-processing system and different types of recording-analysis systems for human articulatory behavior in addition to existing systems such as our x-ray microbeam system and our EMG system.

Thus, we can say that we are now at the beginning of a new era for our Institute.

It is our pleasure to present in this issue the further result of our research projects. Some of the reports are based on the preliminary results from the application of our new project systems. The participation of our various cooperative groups in producing this issue is greatly acknowledged.

As in past years, several distinguished speech scientists honored us this year by their visits for joint research projects. Among these, Professor René Collier from the University of

Antwerp, Belgium, stayed with us for a month in summer, 1984 for EMG-pressure studies on Dutch intonation. During almost the same period, Dr. Thomas Baer from Haskins Laboratories and Drs. Peter Alfonso and Ben Watson from Haskins Laboratories and the University of Connecticut stayed with us for an x-ray microbeam study on stuttering. Dr. Virginia Mann payed us her second visit also during the summer period for joint research on speech perception among Japanese students. Professor Yousef El-Halees from the University of Amman, Jordan, visited us to conduct joint research on Jordan Arabic, and we had several sessions with him as a subject for physiological measurement of articulatory muscle activities combind with fiberoptic observations, the results of which are reported in part in this issue.

As has been widely announced, the Twentieth Congress of the International Association of Logopedics and Phoniatics will be held in Tokyo in August, 1986. Professor Ichiro Kirikae is the President of the Organizing Committee of the Congress, and Professor Masayuki Sawashima is the General Secretary of the Congress. As a result, I assumed the directorship of the Institute from April, 1985, since Professor Sawashima is deeply involved in the preparation of the International Congress. I shall now continue the efforts of the previous Directors towards the further development of our Institute.

As for of publication and distribution policy for our Annual Bulletin, we hope that we can continue our present practice of sending one copy to each of the active research groups having common research interests in exchange for similar interim reports and/or reprints of publications.

Hajime Hirose, Director

Head, Section of Speech Pathology

PERSONNEL

(April 1984 - March 1985)

Professor Emeritus: Ichiro Kirikae* (D.M.Sc.)

Director: Masayuki Sawashima

Research Staff:

Masayuki Sawashima (D.M.Sc.) Professor of Speech Physiology
Hajime Hirose (D.M.Sc.) Professor of Speech Pathology
Shigeru Kiritani (D.M.Sc.) Professor of Speech Science
Seiji Niimi (D.M.Sc.) Associate Professor of Speech Physiology
Satoshi Imaizumi (D.Eng.) Associate Professor of Speech Science (Jul.-)
Kenji Itoh (D.Eng.) Research Associate
Sotaro Sekimoto (B.Eng.) Research Assistant
Kiyoshi Honda (M.D.) Research Assistant
Satoshi Horiguchi (M.D.) (on leave for research work at Haskins Laboratories, Connecticut, U.S.A.)

Graduate Students:

Mrs. Michiko Mochizuki-Sudo (M.A.)
Miss Fukuko Kuriyagawa (M. Pharm. Sc.)

Special Students:

Seishi Hibi (D.M.Sc.) (-June)
Miss Kanae Konno (M.A.)
Miss Yukie Masuko (M.A.)

Guest Researchers:

John A. Bisazza (Ph.D.) Lecturer, Department of Literature, Meijigakuin University
Mrs. Virginia A. Mann (Ph.D.) Assistant Professor, Department of Psychology, Bryn Mawr College (Jul.-Aug.)
René P. Collier (Ph.D.) Professor, Department of Linguistics, University of Antwerp. (Jul.-Aug.)
Thomas Baer (Ph.D.) Haskins Laboratories. (Jul.-Aug.)
Peter J. Alfonso (Ph.D.) Associate Professor, Department of Communication Sciences, University of Connecticut (Jul.-Aug.)
Ben C. Watson (Ph.D.) Lecturer, Department of Communication of Sciences, University of Connecticut (Jul.-Aug.)
Neville J. Saunders (Ph.D.) Lecturer, Department of Linguistics, Western Australian Institute of Technology. (Sept.-)
Miss Hea Sook Park (D.M.Sc.) Lecturer, Department of Special Education, Eaha Women's University (Sept.-)

*Also Professor, Department of Otolaryngology, Jichi Medical School.

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Hideyuki Sato (part time)

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Miss Satoko Hirano (part time)
Mrs. Naoko Shimizu (part time)
Mrs. Mieko Tanaka (part time)
Miss Rika Inokawa (part time) (Mar.-)

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Section