

**The internationalization of scientific research on table tennis and the role of Japan:
The details and the issues in *the International Journal of Table Tennis Sciences*, No.1 (1992)**

**Hiroaki Sakakibara, Professor PhD
University of Teacher Education Fukuoka,
Member of JTТА-SSMC, JAPAN**

Introduction

This paper aims to explain the issues in *the International Journal of Table Tennis Sciences*, No. 1 (1992) and assess past and present scientific research on table tennis.¹⁾ This paper also seeks to explain the rationale and process for publishing *the International Journal of Table Tennis Sciences*, as well as the steps taken to obtain an International Standard Serial Number (ISSN) for the journal. The first issue of this scientific journal was intended to be a platform for the proceedings of the International Congress of the ITTF, Sports Science Committee (ITTF-SSC), held in Fukaya in 1991. It was spearheaded by the late Prof Nobuo Yuza and several members of the editorial board, as well as the JTТА Sports Science and Medical Committee.²⁾ At this international congress approximately 25 years ago, as far as we can remember, issues related to international studies by the ITTF-SSC were raised by Mr. Ogimura, Dr Dolinar, Prof Yuza, and many other researchers and scholars. We think this early initial stage of international research was successful because of the presence of the ITTF Sports Science and Medical Committee at the international levels. It is important for us to consider past and present sports science research on table tennis.

1. Background of the Second ITTF Sports Science Congress, 1991

In making arrangements for the Second ITTF Sports Science Congress in 1991, we obtained the cooperation of a great number of people. The first stage of the arrangements dates back to 1989, when the First ITTF Sports Science Congress and the Fortieth World Table Tennis Championships were held in Rome, Italy, and in Dortmund, Germany, respectively. Although it had already been decided that the next World Table Tennis Championships would be held in Makuhari-city, Chiba-pref. Japan, the ITTF Sports Science Congress had to find a place or sponsor university in the country. Therefore, Mr. Ichiro Ogimura, president of the ITTF, asked Mr. Bungo Matsukawa, the chief executive officer(substantially president) of the Saitama Institute of Technology (SIT), to provide the site and sponsorship for the congress. SIT is known as a unique college that approaches technology and education in its own way based on Buddhist philosophy. Mr Matsukawa and Mr Yukinobu Sato, who was secretary general of SIT's executive board, accepted the proposal, and the substantial preparations for the Second ITTF

Sports Science Congress. And then the preparations began under the direction of Prof Nobuo Yuza, Chairman of the JTTA Sports Science and Medical Committee at that time.

To prepare Prof Yuza's office of research institute(Chukyo Women's University) to serve as the executive office of the congress, a telephone, a fax machine, and other necessities were installed. He notified table tennis scientists around the world about the upcoming second congress and asked them to participate. At first, very few agreed to participate or submit abstracts. Prof Yuza, however, devoted himself to attracting scientists and researchers, and continued to identify suitable people for the keynote address and general presentation. In December 1990, we formally set up the executive board for the Second ITTF Sports Science Congress. It consisted of seven functional divisions that oversaw programmes, site preparation, organizing a friendship table tennis tournament for the participants, general affairs and accounts, recording, lodging, and reception.³⁾

On 22 and 23 April, general presentations were given on sports medicine, sociology, psychology, training, physiology, and biomechanics. After these were concluded, the scientists were divided into groups according to discipline and then discussed problems and exchanged notes.⁴⁾ The reports were recorded in *the International Journal of Table Tennis Sciences*, No. 1 (1992). The chairman of each section prepared a summary of the meeting as well as a questionnaire to be administered to players at the Forty-First World Table Tennis Championships. The questionnaire results are presented in *the International Journal of Table Tennis Sciences*, No. 1. In this way, the late Prof Yuza and Mr Ogimura aimed to promote scientific approaches to table tennis.⁵⁾

2. The late Mr. Ogimura, the late Prof Yuza, and the Publishing of *the International Journal of Table Tennis Sciences*

At a general meeting held at 08:30 on 24 April, Mr. Ogimura proposed establishing an International Academy of Table Tennis Sciences (ATTSc) under the supervision of the ITTF to promote the scientific study of table tennis. The proposal was seconded by the other participants. Prof Z. J. Dolinar was named chairman of the Academy, with Prof Paul Shiltz and N. Yuza as research coordinators.⁶⁾ At the present circumstances, there is not the Academy. However, the publication of *the International Journal of Table Tennis Sciences* inaugurated a fruitful period for the congress.

Prof Yuza provided a detailed description of the submission process in the journal's first issue in 1992. Scientific papers on table tennis were divided into two categories: original investigations and other reports.⁷⁾ After papers were presented at the congress, steps were taken to submit them to Prof Yuza's editorial office. The submitted papers were peer reviewed, and the results were sent to the respective authors. After a number of revisions, the editorial board

accepted the papers.

Given the high-level content of international table tennis studies at that time, it is difficult to divide these papers into original investigations and other reports. I underestimated the arbitrariness of Prof Yuza's selections. However, it is believed that we can sort the original investigations and reports into germinal-stage studies, studies presenting new data or figures, reports on the present state of research, and so forth. Thus, other reports are also important for future scientific studies on table tennis. These could include reports such as medical department studies, physical fitness test data, nutrition studies, reports on international-level players in the championships, anti-doping reports, and so on. These would contribute significantly to table tennis science.

In establishing an international academy for table tennis, including the publication of *the International Journal of Table Tennis Sciences*, Mr. Ogimura made plans to apply for the journal's ISSN. He convinced the ITTF office, located in Hastings in the UK, to apply for an ISSN to the ISSN UK Centre under the auspices of the British Library. Print copies of the journal's first and third issues (from 1992 and 1996) were deposited in the British Library. Initially, 300 copies of the three issues were printed and sent to members of the ITTF-SSC. And Prof Yuza tentatively had made draw up 'Notes on Contributors' which was recorded in the *International Journal of Table Tennis Sciences*, No. 1 (1992).⁸⁾ Then, in 2010, Prof Dr Yutaka Tsuji became the journal's editor-in-chief beginning with its sixth issue, which was the first to be published digitally. Today, electronic publication of the journal continues on ITTF's website, with the active support of Prof Miran Kondrič and Dr Jean François Kahn, as well as other ITTF-SSC members.

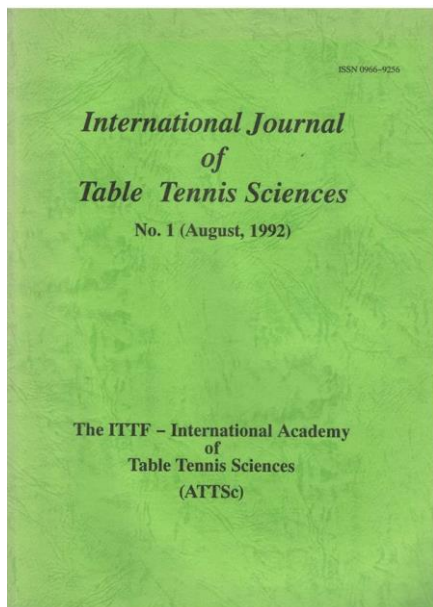


Figure 1. IJTTS No.1

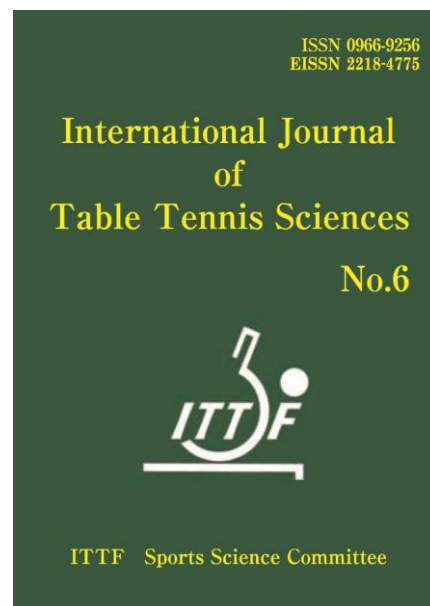


Figure 2. IJTTS No.6



Editorial Board	1		Estimation of Energy Consumption Quantity from Heart Rate of Chinese Professional Table Tennis Player in Training	138	
Contents	6		Huan Yu Zhang, Yukiko Ushiyama, Fei Yang, Shoji Iinaka, Ken Kamijima (JPN)		
Preface	1		A Historical Study on the Doubles Game in Table Tennis as Introduced by Dr Yasumasa Nagayama in the Early 1930s' Japan: His Contributions and the First Step towards the Internationalization of Table Tennis in Japan	145	
Proposal for Rationalizing the Initiation and Training Activities for Beginners in Table Tennis by Means of the Instructional Project	3		Sakakibara Hiroaki (JPN)		
Research on Table Tennis Player's Cardio-respiratory Endurance	6		High-Speed Video Image Analysis of Air Flow around a Table Tennis Ball	148	
Jun-ichi Kasai, Ohta Akira, Jung Tae Hwang, Takeshi Mori (JPN)			Fujio Yamamoto, Jun-ichi Kasai, Hiromasa Hirakawa, Satoshi Someya, Koji Okamoto (JPN)		
A Study on the Compilation of a Behavioral Scale or Timeout Decision of Taiwan's Table-tennis Players	21		Differences between EMGs of Forearm Skeletal Muscles for Flick Strokes against Backspin and No-spin Services in Table Tennis	151	
Ming-Yueh Wang, Chia-Ei Chen, Shuh-Chung Lee, Ch-Yueh Hsu (TPE)			Kanaho Yoshida, Koji Sugiyama, Shin Marakoshi (JPN)		
Perceived Motivational Climate of Female Table Tennis Athletes	29		Real-time Chart System of Table Tennis Tournaments on the Internet	155	
Oscar Yoshitomo S Santolucito, Vanessa G. Vizarro (PHI)			Yukihiko Ushiyama, Tooru Tamaki, Hisato Igarashi, Otsumi Hashimoto (JPN)		
Sport Students' Motivation for Participating in Table Tennis at the Faculty of Kinesiology in Zagreb	44		Study Concerning the Impact of Table Tennis Competitions on the Development of the Professional Table Tennis in the County of Bacau-România	160	
Gordana Furjan-Mardić (CRO), Miran Kodrić (SLO), Matjaž Tufak (SLO), Nikola Ronar (JRC) (CRO), Ljilja Kondrić (SLO)			Nicolas Ochara (ROU)		
Investigation of Underlying Psychological Factors in Elite Table Tennis Players	48		The Table Tennis Shoulder	163	
I-Ting Chen, Che-Wai Chang, Chao-Ling Hung, Ling-Chun Chen, Tsung-Min Hung (TPE)			Branko Štutegja, Gorica Štutegja Milošević (SRB)		
Software Used As Tactical Tool and of Training for Table Tennis	51		Physiological Demands and Testing in Table Tennis	165	
Amaro Méndez Patiño, Juan J. D. Delgado R., Marcos A. Martínez Peró (MEX)			Miran Kodrić (SLO), Gordana Furjan-Mardić (CRO), Ljilja Kondrić (SLO), Alejandra Gabaglio (ARG)		
Comparison of Rally Time in XXIX Beijing (2008) and XXVII Athens (2004) Olympic Table Tennis Tournaments	55		Where is it? A simple Guide to Table tennis Information	171	
Michal Kamikadeli, Theodoros Pitaridis, Alexandra Mithroiti (GRE)			Ljilja Kondrić (SLO), Miran Kodrić (SLO), Jole Štihce (SLO), Gordana Furjan-Mardić (CRO)		
Footwork in Relationship with Strokes and Efficacy during the 29th Olympic Games Table Tennis Final	90		Somatotype and Body Composition of Young Top-level Table Tennis Players	175	
Malagoli Luciano Ivan, Loebotto Roberto, Menni Franco (ITA)			Luis Carrasco, Francisco Pradas, Aldo Martínez (ESP)		
Grip Strength in Young Top-level Table Tennis Players	64		Muscular Power of Leg Extensor Muscles in Young Top-level Table Tennis	178	
Luis Carrasco, Francisco Pradas, Pablo Floria, Aldo Martínez, Rafael Herrero, José Antonio González-Jurado (SPN)			Francisco Pradas, Luis Carrasco, Pablo Floria (ESP)		
Puzzlement that the Edge Ball Dispute Brings to Table Tennis Match and Its Solution	87		Design and Development of an Observational Tool for Evaluating Table Tennis Singles Matches	181	
Dasheng Wang, Peng Chen, Weiqiang Huang (CHN)			Francisco Pradas, Pablo Floria, Luis Carrasco, Alfonso Beaconsote, José Antonio González (ESP)		
Nutrition for Table Tennis Competitors	89		Energy Expenditure and Cardiorespiratory Responses during Training and Simulated Table Tennis Match	186	
Chandra Madhoo Singh (CAN)			Shu-Chuan Shieh, Ju-Ping Chou, Ying-Hao Kao (TPE)		
Analysis on Technique and Tactics of Lin Ma and Hao Wang in the Men's Single Table Tennis Final in the 29th Olympic Games	74		How to Harness the Characteristics of the 11 point Scoring System for Winning a Table Tennis Match	190	
Zhe Hao, Zhenheng Tan, Yiqiao Hao, Ji Song (CHN)			Teicheng Wu, Piren Su (TPE)		
A Comparison of Exercise Intensity on Different Player Levels in Table Tennis	79		How to Coach World-Class Athletes of Table Tennis	195	
Aleš Suchomel (CZE)			Teicheng Wu, Piren Su (TPE)		
Analytical study for Some Offensive Skills for Advanced Level Junior Players in ITTF Pro-Tour Egypt 2008	83		A Study on Table Tennis Players' Psychological Skills, sport Injury, and Tournament Satisfaction in 49th World Championship	203	
Yusuf Kamal M.S. Ghoniem, Ahmed Sobhy Salem (EGY)			Chang-Yong Chu, Jung-Huan Lin, Tsung-Min Hung (TPE)		



Download all PDF file

Figure 3. The contents for the electric version of IJTTS, No.6

3. Issues in the *International Journal of Table Tennis Sciences*, No. 1 (1992)

The 1st Sports Science Congress in Rome had only 27 participating members in total.⁹⁾ When it was decided that the 2nd Sports Conference would be held in Fukaya, Saitama-pref, Japan, Prof. Nobuo Yuza, the person in charge of organizing and managing the conference, quickly formed an organizing committee to prepare for this second congress. Ultimately, a list of the participants and those involved in administration of the congress - 164 people in all - was compiled for the 2nd congress. At this time, affiliating with the ITTF Sports Science Committee and promoting scientific research related to competition as an IF was strongly advocated by Mr. Ichiro Ogimura, who at the time was the president of the International Table Tennis Federation. Therefore, it was decided that the Sports Science Committee was to be founded specifically as an international council dedicated to one of event for table tennis. The ITTF did, however, already host at that time a Sports Science Committee; therefore, the new council was given the title of 'International Academy of Table Tennis Sciences'. In this way, table tennis can perhaps be considered to have been a step ahead of other sports event at the time, with its unique precedent of having commissions and academic societies affiliated with an international association focussed on scientific research. Both Mr. Ogimura and the congress chairman, Prof. Yuza, took great pride in this fact. As the host organisation for the congress, the Saitama Institute of Technology has played a major role in providing the support needed to sustain the congress, including sufficient resources and staff for its operation. Mr. Ogimura and Prof. Yuza have also arranged for the executive committee of the International Academy of Table Tennis Sciences to be housed at the Saitama Institute of Technology after the congress. However, questions lingered as to whether the organization's academic format meant that it would continue its work after the congress as an academic body. The foremost unresolved questions concerned the creation of congress proceedings and, as an academic body, the publication of a journal compiling international research findings. Publishing a journal is a two-pronged task, requiring both editing and publishing. As for the former, an editorial board requires review standards in order to provide peer review and determine whether articles are suitable for publication. For the sake of convenience, the editorial board determined that the material to be published would be divided into one of two categories: original investigations and reports. The distinction between 'original investigations' and reports has been explained for convenience, but the classification is also performed by the editorial board via a review process, conducted according to scientific research standards. Thus, the classification of articles has also been facilitated. Nowadays, papers with more practical content have begun to be reviewed and evaluated internationally; therefore, creating a category for practical research and coaching reports - papers on coaching and practical matters such as instruction of technique and tactics - might not be a bad idea.

Table 1. The title pages and the Editorial Board Members of the IJTTS, No.1(August, 1992)

International Journal of Table Tennis Sciences is published biennially after congress of International Academy of Table Tennis Sciences.
This Journal contains original investigations and other reports on table tennis; and also serves as a proceeding of each congress.

International Journal of Table Tennis Sciences

is published by
The International Table Tennis Federation,
53 London Road, St Leonards-on-Sea, England.

On behalf of the ITTF - International Academy of
Table Tennis Sciences,
Incorporated with Saitama Institute of Technology (SIT),
1690 Fusajii, Okabe-cho, Osato-gun, Saitama 369-02, Japan.

International Journal of Table Tennis Sciences
- Proceedings of 1st and 2nd ITTF Sports Science Congresses -
ISSN 0966-9256

The ITTF - International Academy of Table Tennis Sciences

ITTF President **Ichiro Ogimura, Japan**

Honorary Academy President **Bungo Matsukawa,**
Chairman of Saitama Institute of Technology, *Japan*

Kuniko Tanioka,
President of Chukyo Women's University, *Japan*

Zarko J. Dollinar,
Chairman of the ITTF Sports Science Committee, *Switzerland*

Paul Schilitz,
Atheneum of Luxembourg, *Luxembourg*

Nobuo Yuza,
Chukyo Women's University, Junior College, *Japan*

Bungo Matsukawa,
Saitama Institute of Technology, *Japan*

Editorial Board

Executive Editorial Board Members

Editor in Chief - **Ichiro Ogimura**, President of the ITTF, An Official Counselor for the Ministry of Education on Life-Long Education, and Health and Physical Education, *Japan*

Nobuo Yuza, Chukyo Women's University, Junior College, *Japan*

Hiroaki Sakakibara, Tokyo Seitoku College, *Japan*

Yukari Yoshimura, Keio University School of Medicine, *Japan*

Shuichi Hiruta, Nagoya University, *Japan*

Wataru Ono, Tokyo University of Foreign Studies, *Japan*

Ceryl Mary Roberts, South African Table Tennis Board, *South Africa*

International Editorial Board, Continental Research Advisers

- Zarko J. Dollinar (M.D.)**, ex-Basel University, *Switzerland*
- Nobuo Yuza**, Chukyo Women's University, Junior College, *Japan*
- Paul Schilitz**, Atheneum of Luxembourg, *Luxembourg*
- Ziad Al-Kurdi**, Yarmouk University, *Jordan*
- Olukemi Olugbile**, Nigeria T.T.A., *Nigeria*
- Zhong Hui Qiu**, China T.T.A., *China*
- Branko Sbutega**, Special Orthopaedic Hospital "Banjica", *Yugoslavia*
- Peter van Shile**, Netherlands T.T.F., *Netherlands*
- Ramon Baron**, Austrian T.T.F., *Austria*
- Sonam Drukpa**, Bhutan T.T.F., *Bhutan*
- Tamas Halasi**, Hungarian T.T.A., *Hungary*
- Knut Havag**, Norway T.T.F., *Norway*
- Jean-F. Kahn (M.D.)**, Laboratory of Physiology of Montricite, *France*
- Tony Morris**, Victoria University of Technology, *Australia*
- Abdel Hadi Nassif**, Egyptian T.T.A., *Egypt*
- Jesus C. Santacruz (Dr)**, Mexican T.T.F., *Mexico*
- Michael Scott (M.D.)**, U.S.T.T.A., *USA*
- Shunichi Yoshimatsu (M.D.)**, Kosyoku Central Hospital, *Japan*
- Stan Azajkowski**, Canadian T.T.A., *Canada*
- Mag Vallejo (M.D.)**, Spanish T.T.F., *Spain*
- Yoshinori Okazawa**, Nara University of Education, *Japan*

Advisory Editorial Board

- Kentarō Mimatsu (M.D.)**, Nagoya University, *Japan*
- Kazuhiko Watanabe (Dr)**, Hiroshima University, *Japan*
- Kyonosuke Yabe (Dr)**, Nagoya University, *Japan*
- Masaru Ikeda (Dr)**, Kanoya College of Physical Education, *Japan*
- Junnko Kagaya (Dr)**, Nippon Women's College of Physical Education, *Japan*
- Miharu Miyamura (Dr)**, Nagoya University, *Japan*
- Mitsuru Higuchi (Dr)**, National Institute of Health and Nutrition, *Japan*
- Yutchi Hirano (Dr)**, University of Tokyo, *Japan*
- Shinji Sakurai (Dr)**, Nagoya University, *Japan*
- Kando Kobayashi (Dr)**, University of Tokyo, *Japan*
- Kaoru Kitagawa (Dr)**, Chukyo University, *Japan*
- Hirohiko Kagaya (Dr)**, Saitama University, *Japan*
- Takashi Yamamoto (Dr)**, Chukyo University, *Japan*
- Atsushi Hujita (Dr)**, Nippon University, *Japan*
- Masato Shirayama (M.D.)**, University of Tokyo, *Japan*
- Teisuo Fukunaga (Dr)**, University of Tokyo, *Japan*
- Yasuo Ikegami (Dr)**, Nagoya University, *Japan*
- Shiro Nakagomi (Dr)**, University of Tsukuba, *Japan*
- Ouchi, Yasuyoshi (M.D.)**, University of Tokyo, *Japan*
- Kenzo Terashita (M.D.)**, University of Tokyo, *Japan*
- Hiroshi Ebashi (M.D.)**, Physical Fitness Research Institute - Meiji Life Foundation Health and Welfare Tokyo, *Japan*
- Tamio Sase (M.D.)**, Higashi Shinbashi Clinic, *Japan*
- Yoshihiko Kawazoe (Dr)**, Saitama Institute of Technology, *Japan*
- Suguru Araki (Dr)**, California Institute of Technology, *USA*

Table 2. The descriptions for title pages and the Editorial Board Members of the IJTTS, No.6(2010)	
International Journal of Table Tennis Sciences, Number 6	
Editorial Board	
Kazuto Yoshida	Editor-in Chief, Shizuoka University, Japan
Associate Editor	
Shuichi HIRUTA	<i>Nagoya University</i> , Japan
Hiroaki SAKAKIBARA	Fukuoka University of Education, Japan
Fujio YAMAMOTO	Fukui University, Japan
General Members of Editorial Board	
Suguru ARAKI	<i>Tohoku Fukushi University</i> , Japan
Takashi GUSHIKEN	Hakuai Hospital, Japan
Jun-ichi KASAI	Weseda University
Takeji KOJIMA	University of Tokyo
Yutaka TSUJI	Chair of the 11th ITTF Sports Science Congress
Yukihiko USHIYAMA	<i>Osaka University</i> , Japan
Advisory Board	
Jean-François KAHN	Chair of ITTF Sports Science Committee, France
Published in 2010 by International Table Tennis Federation ,	
	Headquarter & Olympic Office
	Hemin de la Roche, 11
	1012 Renens / Lausanne(Switzerland)
ISSN 0966-9256	

Table 3. The descriptions for title page and the Editorial Board Members of the IJTTS, No.4 &No.5	
Table Tennis Sciences, Number 4 & 5	
Edited by	
Nobuo YUZA	Editor-In Chief, Chair of JTTA Sports Science Committee <i>Chukyo Women's University</i> , Japan
Shuichi HIRUTA	Vice-Chair of JTTA Sports Science Committee <i>Nagoya University</i> , Japan
Yuji IIMOTO	JTTA Sports Science Committee <i>Chukyo Women's University</i> , Japan
Yukio Shibata	JTTA Board of Directors <i>Tohoku Fukushi University</i> , Japan
Yutaka TSUJI	Chair of the 7th ITTF Sports Science Congress <i>Osaka University</i> , Japan
J. Rufford HARRISON	Former Chair of ITTF Equipment Committee, USA
Advisory Board	
Adham SHARARA	ITTF President, Canada
Jean-François KAHN	Chair of ITTF Sports Science Committee, France
Koji KIMURA	Former JTTA General Director, Japan
Suguru ARAKI	Vice-Chair of the 7th ITTF Sports Science Congress <i>Tohoku Fukushi University</i> , Japan
Published by International Table Tennis Federation ,	
	Headquarter & Olympic Office
	Avenue Mon Repos, 30,1005-Lausanne (Switzerland)
Printed in 2002, Japan	
ISSN 0966-9256	

Table 4. The descriptions of the details for IJTTS in the Main Catalogue of British Library

<i>Title:</i>	International Journal of Table Tennis Sciences
<i>Contributor:</i>	International Table Tennis Federation, International Academy of Table Tennis Sciences
<i>Other Title:</i>	International Journal of Table Tennis Sciences
<i>Subjects:</i>	Table Tennis; Science Related to Sports
<i>Dewey:</i>	796.3461
<i>Rights:</i>	Terms governing use: Current Copyright Fee: GBP 12.30
<i>Publication Details:</i>	St Leonards-on-sea: International Table Tennis Federation on behalf of the ITTF International Academy of Table Tennis Sciences, 1992-
<i>Language:</i>	English
<i>Description:</i>	No.1(Aug. 1992)-
<i>Identifier:</i>	ISSN 0966-9256; BNB GB9323475; System number 012483876
<i>Related Titles:</i>	International journal of table tennis sciences(Online) 2218-4775
<i>Notes:</i>	Issues every two years
<i>Physical description:</i>	v.: ill. ;30cm
<i>Holdings Notes:</i>	General Reference Collection ZK.9.b.5228 No.1(Aug.1992); No.3 (Aug.1996) only
<i>Shelfmark(s):</i>	General Reference Collection ZK.9.b.5228

4. The internationalization of scientific research on table tennis and the role of Japan

As for the printing of the journal, a printing office at the University of Tokyo campus that would undertake the project at a reasonable price was selected. Why the University of Tokyo? This is because a friend of Prof. Yuza, Prof. Kamon Nitagai, worked for that university (and later became its vice president) and extended us an invitation. The number of copies to be printed was set at 300, assuming that it would be distributed to each committee member and participant at the international congress. The greatest unresolved issues at this point were the content of the booklet, the number of pages, the creation of a colophon for publication, and whether the publication could be officially recognized as a scientific journal. Any publication issued by an international scientific society must be circulated internationally. The executive offices of the ITTF were in Hastings, England; therefore, a petition was sent to the British Library. ITTF officials in England had continued our hard work.

However, in order to obtain an International Standard Serial Number (ISSN), a contact is required at a national library or, in the case of Japan, the National Diet Library. In order to obtain an ISSN from the British Library in England, a directive from Mr. Ogimura was needed. In addition, for that directive from Mr. Ogimura to be released to the office in England, we required an appropriate reason and basic explanation. Prof. Yuza and Prof. Hiroaki Sakakibara contacted Mr. Ogimura directly; we recall that we met in Mitaka-city, Tokyo, where we provided an explanation of the circumstances and submitted a request. Currently, as outlined in Table 1, No. 1 and 3 of *the International Table Tennis Sciences* are found in an electronic search of Main Catalogue of the British Library. Why Vol. 2 is not in the library's possession is unclear.

The academic publication of the International Academy of Table Tennis Science had emphasized the current state of international competition and scientific understanding of the sport. The 2nd Congress took at its main topic the use of yellow-coloured table tennis balls. Research results of great interest were announced, reporting that making table tennis balls yellow had an impact on player response time.¹⁰⁾

The increase in player's physical reaction speeds due to the use of these coloured table tennis balls became a central topic of the 2nd Congress. Scientific data were presented on the phenomenon, and standards were suggested. To better adhere to academic and scientific research standards, it was necessary to confirm the reproducibility of scientific data and present objective research methods. Currently, remarkable progress is being made toward these goals. If our knowledge of these topics could be deepened through the exchange of ideas and question-and-answer sessions between researchers and the participants, then it could be said that we were sufficiently accomplishing our role as a scientific society. Technological innovations and new tactics and techniques had directly influenced the competition results of participating teams from a variety of nations; therefore, it was perhaps only natural to want to keep the research findings confidential and use them to elevate the international competitiveness of Japanese players. Research staff from individual national scientific societies are also compelled to produce research results that contribute to the improvement of their own country's level of competitiveness, and they must be eager to produce research findings that contribute directly to the victories of players from their own nations. It was noted, however, that the need to adopt a global perspective on our shared interests and the development of table tennis as a whole, without prioritising the competitiveness of any one individual nation, transcended these concerns - as did the fact that the ITTF as an individual sports federation founded an international congress dedicated to medical science. Above all, while a great deal of arbitrary data exist, the motion analysis of player techniques and an accurate grasp of the fitness and the strength and endurance of players at various levels has unfailingly contributed to the improved accuracy of research data at international congress. The topic that particularly arrested Mr. Ogimura's attention was identifying the methods and conditions that help in the discovery of future young talent. Player nutrient intake and the field of sports dietetics have also both been established as new areas of interest for the ITTF's Sports Science Committee at that time. This could be called prescient. Furthermore, regarding the 2nd International Congress's Publication Division, as with the 1st Congress in Rome, an overview was provided of the international congress findings and the status of research activities in the respective divisions of Medicine and Physiology (cardiorespiratory, the muscle-tendon complex, and physical strength), Biomechanics (kinematics, physical mechanisms, and the development of tools), and Psychology (player motivation and mental training). Furthermore, as observed in a keynote speech by Dr Yoshio

Kuroda at the time an authority on the state of and issues regarding anti-doping measures-doping prevention had become a pressing issue for the ITTF. The challenges of nutritional science and player nutrient intake, to be tackled by the new divisions, were also mentioned.¹¹⁾

For the 3rd Congress, a Comprehensive Division was also added. Additionally, evidence of attempts by the ITTF's Sports Science Committee to gain information through an international survey via a questionnaire distributed to players in various nations is evident in No.1 of *the International Journal of Table Tennis Science*.¹²⁾ The survey was supervised by Mr. Ogimura and covered various subjects such as the existence or absence of player sports injuries; information about player nutrition, beverages, physiological inspections, and doping; sports psychology; biometrics; and training. The results of the survey were compiled into a report.

Conclusion: Current and future scientific studies

Players compete in table tennis championships all over the world. International research on table tennis science has progressed, and there is a focus on further development. After Mr. Ogimura passed away, ITTF's next president, Mr. Xu Yinsheng, also had been displayed a deep understanding of the development of table tennis sciences.

Finally, there is our proposal to scientists and researchers on table tennis. It is believed that new scientific knowledge can be gained by publishing in *the International Journal of Table Tennis Sciences* which were included as a second contribution, the reprinted papers of the original investigation already have been written up in other Journal in their respective specialization. Are there questions or opinions that arise? Should the second contributions be permitted? Dr Miran kondrič has long devoted himself to promoting the achievements of the Sports Science Committee, along with the Racket Sports Congress. Finally, we would like to express deep gratitude to Dr Miran kondrič, Dr Jean François Kahn, Dr Yutaka Tsuji, and Dr Shiro Matsuo, and other members of ITTF Sports Science Committee. And We also would like to express deep gratitude to Dr Kazuto Yoshida, and other members of JTTA Sports Science and Medical Committee.

【Notes and References】

- 1) International Table Tennis Federation, International Academy of Table Tennis Sciences (ATTSc), *the International Journal of Table Tennis Sciences*, No.1,1992, Hastings
- 2) *ibid.*, p.ii. Editorial Board Members were the whole 52 members had consisted (1)Executive Board Members, (2) International Editorial Board and (3) Advisory Editorial Board.
- 3) *ibid.*, pp.171-173. 'Executive Board Members at the 2nd ITTF Sports Science Congress in Fukuya, Japan'

- 4) Hiroaki Sakakibara(1992) 'The Process and Successful Results of the 2nd ITTF Sports Science Congress', in; International Table Tennis Federation, International Academy of Table Tennis Sciences (ATTSc), *the International Journal of Table Tennis Sciences*,No.1, 1992, pp.185-186.
- 5) *op.cit.*, *the International Journal of Table Tennis Sciences*,No.1,1992, pp.171-173. 'Executive Board Members at the 2nd ITTF Sports Science Congress in Fukuya, Japan'
- 6) *ibid.*, pp.171-173. 'Executive Board Members at the 2nd ITTF Sports Science Congress in Fukuya, Japan'
- 7) *ibid.*, pp.iv-v. 'Contents of the International Journal of Table Tennis Sciences, No.1, 1992'
- 8) *ibid.*, pp.219-220. 'Notes on Contributors'
- 9) *ibid.*, pp.143-144. 'Report to ITTF from the ITTF Scientific Congress(in Rome, 1989)'
- 10) David J.Rogers(1992) *et al.* 'Yellow or White? A Preliminary Investigation into the Effects of Ball Colours in the Players Speed of Response in International Table Tennis', in; International Table Tennis Federation, International Academy of Table Tennis Sciences (ATTSc), *the International Journal of Table Tennis Sciences*,No.1, 1992, pp.23-26.
- 11) Yoshio Kuroda(1992) 'The problem of Doping', in; International Table Tennis Federation, International Academy of Table Tennis Sciences (ATTSc), *the International Journal of Table Tennis Sciences*,No.1, 1992, pp.165-169.
- 12) The ITTF Sports Science Committee(1992) 'The ITTF Questionnaire of Elite Athletesat 41st World Table Tennis Championships in Chiba, Japan', in; International Table Tennis Federation, International Academy of Table Tennis Sciences (ATTSc), *the International Journal of Table Tennis Sciences*,No.1, 1992, pp.191-208.