

## CONTENTS

Preface -----	1
Kazuhiro SUZUKI	
(1) Proceedings of the 13th Symposium on Researches Using the Tandetron AMS at Nagoya University in 2000	
1. Motivations for opening the Symposium -----	2
Toshio NAKAMURA	
2. Archaeological research on the Lal-lo shell middens -----	6
and chronological context of the sites	
Hidefumi OGAWA	
3. Radiocarbon concentration and stable carbon isotope ratio in food -----	17
Hidehisa KAWAMURA, Nobuaki MATSUOKA,	
Noriko SAKAMOTO, Tatsumi ARIMA, Yaohiro INAGAKI,	
Kazuya IDEMITSU and Hirotaka FURUYA	
4. Current status on Tandetron II in Nagoya University -----	25
Etsuko NIU	
5. Measurement of IAEA $^{14}\text{C}$ standard materials -----	35
with the 2 <sup>nd</sup> Tandetron AMS machine at Nagoya University	
- Estimates of precision and accuracy -	
Toshio NAKAMURA, Hirotaka ODA, Etsuko NIU, Akiko IKEDA,	
Masayo MINAMI, Hiroshi Aoki TAKAHASHI and Tomoko OHTA	
6. AMS radiocarbon dating of ancient Japanese documents and sutras -----	44
Hirotaka ODA	
7. Radiocarbon ages of ancient Japanese documents -----	63
Hirotaka ODA and Takashi MASUDA	
8. Radiocarbon dating of printed books early in the Edo period -----	72
Yasukazu YOSHIZAWA, Hirotaka ODA,	
Toshio NAKAMURA and Keiko FUJITA	

9. AMS radiocarbon dating of "The tail of Genji" of calligraphy attributed to Kin'eda	80
Takashi YOKOI, Hirotaka ODA, Seiichi NOMURA, Toshio NAKAMURA, Eiko UENO and Etsuko NIU	
10. AMS radiocarbon dating of ancient Japanese calligraphies and documents	89
Kazuomi IKEDA and Hirotaka ODA	
11. AMS radiocarbon dating of "muna-fuda" at Chishayama Shrine and Keiman-ooi Shrine in Honkawane, Shizuoka Prefecture	93
Tsutomu MIYAMOTO and Hirotaka ODA	
12. Radiocarbon dating of iron manufacture remains	103
Tetsuya YAMADA, Toshio TSUKAMOTO, Hirotaka ODA and Toshio NAKAMURA	
13. AMS radiocarbon dating of Okyouduka site in the late and latest Jomon period	113
Naoto YAMAMOTO, Hirotaka ODA and Jyun YOSHIDA	
14. Radiocarbon-chronology of Kirishima volcano (SW Japan) during past 20,000 years	118
Mitsuru OKUNO, Masaaki TSUTSUI, Toshio NAKAMURA and Tetsuo KOBAYASHI	
15. Radiocarbon and the solar activity in the past	125
Kimiaki MASUDA, Masataka KATO, Hiroaki TOYOIZUMI, Yasushi MURAKI, Kh. A. ARSLANOV, Hiroyuki KITAGAWA and Eiji MATSUMOTO	
16. Carbon-14 terrestrial ages of Antarctic meteorites with a Tandetron AMS at Nagoya University	134
Masayo MINAMI and Toshio NAKAMURA	
List of participants	146

## (2) Summaries of Researches Using AMS

1. Seasonal variations of concentration and  $\delta^{13}\text{C}$  in soil air CO<sub>2</sub> -----147  
and soil respired CO<sub>2</sub>  
Hiroshi Aoki TAKAHASHI, Eiich KONOHIRA, Tetsuya HIYAMA,  
Toshio NAKAMURA and Naohiro YOSHIDA
2. The measurement of atmospheric <sup>14</sup>CO concentration in Nagoya -----162  
Akihiko GOTO, Jun MORIIZUMI and Takao IIDA
3. AMS <sup>14</sup>C ages of deer and human bones collected from British Columbia ----169  
Masayo MINAMI, Brian CHISHOLM,  
Hiroo MUTO and Toshio NAKAMURA
4. AMS radiocarbon dating of peaty sediments -----180  
in an incised valley of the Hekkai upland, central Japan  
Kumiko KAWASE
5. Paleoceanographic changes in the East China Sea continental slope -----185  
during the last 18,000 years  
Kazumasa OGURI, Eiji MATSUMOTO, Yoshiki SAITO,  
Makio HONDA, Naomi HARADA and Masashi KUSAKABE
6. Reconstruction of climatic changes using tree-ring data of -----193  
Japanese cypress grown in the southern coastal region of Lake Biwa  
Kenjiro SHO, Hiroshi Aoki TAKAHASHI and Toshio NAKAMURA
7. AMS <sup>14</sup>C age of Cagayan shell-midden sites, -----205  
Northern Luzon, Philippines  
Shozo MIHARA, Mitsuru OKUNO, Hidefumi OGAWA,  
Kazuhiko TANAKA, Toshio NAKAMURA and Hiroko KOIKE
8. Estimation of the age of Takatomi lowland sediments, -----214  
Gifu Prefecture, Japan  
Akio MORIYAMA
9. AMS radiocarbon ages of Jomon pottery (5) -----215  
Naoto YAMAMOTO and Hirotaka ODA

10. A simple preparation of collagen containing samples (5) -----220  
Akiko IKEDA and Toshio NAKAMURA
- (3) List of Theses for Graduation, Prepared Using -----223  
<sup>14</sup>C Dates with the Tandetron AMS System at  
Nagoya University in 2000