

## 2nd International Workshop of Integrated Field Science

### New Perspectives of Volcanic Ash Soils in the Integrated Ecosystems

#### --- Circum Pacific Volcanic Zone ---

#### Program

Date: 1–6 August 2004

Venue: No.1 Lecture Room, Graduate School of Agricultural Science, Tohoku University,  
Sendai, Japan

Tuesday 3 August 2004: Field study

Friday 6 August 2004: Open workshop

10:00–10:20 Opening Ceremony

Chair: Tadashi TAKAHASHI

Dr. Yukio AKIBA

Dean of Graduate School of Agricultural Science, Tohoku University

Dr. Masahiko SAIGUSA

Director of Field Science Center, Graduate School of Agricultural Science,

Tohoku University

10:20 –10:40 Unique properties of Andisols and perspectives on their application

Masami NANZYO

10:40 –11:00 Soil development in volcanic materials

Randy A. DAHLGREN

11:00 –11:20 Variable charges of soils across Andisol/Spodosol transition in Alaska Andisols

Chien-Lu PING, and G.J. MICHAELSON

11:20 –11:40 Morphological and chemical characteristics of tephra-derived soils in

Changbai Volcano area, northeast China

Hitoshi KANNO

11:40 –12:00 Introduction, classification, and adsorption characteristics of Cheju soils.

Hae-Nam HYUN and Kwan-Cheol SONG

12:00 –14:00 Lunch and poster discussion

14:00 –14:20 Partial rejuvenation of the soils in Intavas Techno Demo Farm, Bukidnon, Mindanao,  
Philippines by volcanic ash material

Clarita D. BACATIO, Hideo KUBOTERA, Masami NANZYO and

Ichiro YAMADA

14:20 –14:40 Properties and utilization of Andisols in Indonesia

Dian FIANTIS, Nurhajati HAKIM, and E. Van RANST

14:40 –15:00 Andisols of New Zealand and South Australia

David J. LOWE and David J. PALMER

15:00 –15:20 Modifying a soil carbon turnover model considering unique properties of  
Andisols

Yasuhito SHIRATO and Ichiro TANIYAMA

- 15:20 –15:40 Coffee break
- 15:40 –16:00 Phosphorus dynamics and availability in Andisols  
Toyoaki ITO, Naoto KIKAWA and Masahiko SAIGUSA
- 16:00 –16:20 Al dynamics in nonallophanic Andisols from northeastern Japan  
Tadashi TAKAHASHI and Masami NANZYO
- 16:20 –16:40 Effects of gypsum on amelioration of subsoil acidity of Andisols,  
Mitsuru TOMA, Masahiko SAIGUSA, Nikolla QAFOKU, and Malcolm SUMNER
- 16:40 –17:00 Changes in elemental composition with andosolization  
Masami NANZYO and Tadashi TAKAHASHI
- 17:00 –17:05 Closing remarks  
Dr. Masahiko. SAIGUSA