

# New Products & Topics

## New Product

### Setting a New World Standard for TOC

#### Upgraded Shimadzu TOC Analyzer Ultra-sensitive New Models Target the Semiconductor Market

Shimadzu has comprehensively remodelled its combustion catalytic oxidation TOC analyzer series. To expand TOC sales in the ultrapure water market, in particular the rapidly growing semiconductor manufacturing field, two wet-oxidation type TOC analyzer models have been added to the five previously launched TOC-VC Series models that cover an extremely wide concentration range from 4 µg/L to 25,000 mg/L, offer exceptional ease of maintenance, and permit simultaneous TOC (Total Organic Carbon) and TN (Total Nitrogen) analysis with the addition of the optional TN unit.

#### Wet Oxidation Added

The recently launched wet oxidation /NDIR method TOC analyzers employ not only the most powerful wet oxidation reagent (peroxodisulfuric acid) but also add a combination of UV radiation and

heating to further enhance oxidation performance. The newly designed high-sensitivity non-dispersive infrared detector achieves ultrahigh sensitivity and selectivity. These features, combined with a system to eliminate the carbon impurities in the reagent that cause the background levels of carbon which conventionally hindered high-sensitivity measurement by the wet-oxidation method, achieve the ultrahigh sensitivity measurement with a detection limit of 0.5µg/L.

#### Penetrating the Ultrapure Water Market

Current TOC instruments combining wet oxidation or photocatalytic oxidation with electrical conductivity measurement can achieve this high level of sensitivity, but this method struggles to analyze some organic materials and suffers from interference from ionic and halogenic organ-

ics. However, the new models added to the range achieve the highly sensitive and reliable measurements demanded by semiconductor manufacturers and other industries.

#### Firmer Footing in the TOC World

Shimadzu is the world market leader with almost 30 years' experience selling combustion catalytic oxidation TOC analyzers with the powerful oxidation performance to measure water samples from highly polluted effluents to pure water for water treatment control, process control, environmental water monitoring, and R&D applications.

The addition of wet-oxidation type, high-sensitivity TOC analyzers able to handle all applications, reinforces Shimadzu's ranking as the world's leading manufacturer of TOC analyzers and aims to create a new world standard for TOC measurement.

## New TOC-V Series

TOC-Vws, TOC-Vcsh,  
TOC-Vcsn with  
Autosampler ASI-V



TOC-VE



	Model	Oxidation	Type
1	TOC-Vws	Wet	Stand alone
2	TOC-Vwp	Wet	PC controlled
3	TOC-Vcsh	Combustion	Stand alone, High Sensitivity
4	TOC-Vcsn	Combustion	Stand alone
5	TOC-Vcph	Combustion	PC controlled, High Sensitivity
6	TOC-Vcpn	Combustion	PC controlled
7	TOC-VE	Combustion	Basic model



TOC-Vwp, TOC-Vcph,  
TOC-Vcpn with  
Autosampler ASI-V and PC



### Exhibition

## 10,000 View the Latest Models at RSNA2000

RSNA2000 (Radiological Society of North America), the world's largest congress & technical exhibition for radiology, was held from Nov. 26 to 30 at McCormick Place in Chicago. Over 60,000 people visited the show.

As one of the major exhibitions, Shimadzu secured 6400 sq. ft. of the exhibition hall and presented the latest models of X-ray, CT and Ultrasound line-up under the theme of "Merging Man and Machine." Almost 10,000 people visited the Shimadzu booth.

At the same time, Shimadzu's 125th anniversary party was held at the Chicago Hilton for Japanese customers.

"The show was a success," said Mr. Fujino, Manager of International Marketing Division.

### Visits

## Chinese Association for the Promotion of International Trade Visits Shimadzu

A delegation of 20 members of the Association for the Promotion of International Trade, China, headed by Mr. Yue Ma, the Deputy Director, visited Shimadzu's head office and Sanjo Works on 6 December.

The aim of their visit to Japan was to promote investment in Chinese inland regions.

This was the Association's second visit to Shimadzu, following the one in the previous December.

During their visit, the delegates met company executives in the Training Center before touring the Medical Center and Customer Support Center.



### Award

## Professor Sawada Receives the Shimadzu Award

The Shimadzu Award is given to researchers making significant achievements in fundamental research and development in science and technology.



The Award for 2000 was offered to Professor Tsuguo Sawada of the Graduate School of Frontier Sciences, University of Tokyo.

Professor Sawada used the latest laser technology for the successful development and application of photothermal and photoacoustic spectroscopy.

This method has been very successful for the problematic ultra-high-sensitivity measurements at solid-liquid interfaces and in solvents.

Additionally, 13 young researchers out of 76 applicants were awarded subsidies for fundamental research and development in science and technology.

The award ceremony was held at the Training Center at Shimadzu head office on 9 February, 2001.

### Interview

## Press Interview by Overseas Reporters

Thirteen mass-media reporters from China, Korea, Taiwan, Germany, and France visited Shimadzu headquarters in the afternoon of 21 November to cover a press conference held by the company president, C.E.O. Mr. H. Yajima.

The event was organized by the Kansai International Public Relations Promotion Office that promotes the culture, science, and economy of the Kansai region in western Japan.

The visit also featured a video presenting an outline of the company and viewing the Analytical Instruments Customer Support Center and the DNA sequencer.

Mr. Yajima explained the current status of the company and business expansion strategy before answering questions from the reporters on research and development, IT strategies, and development of overseas business.

