# Contamination Control Sub-Committee Activity & Plan Report

Chairperson : Takayuki YAMAMOTO / Toshiba
Co-chairperson: Tetsuya OHTAKI/Hitachi GST
Kazuo ICHIJO / Rion
Yoshihiko MIYAKE

# Activities : July,2008- June, 2009

**IDEMA**

**Meetings:** (1) Oct 22, '08(2) Feb.27, '08 (3) May 13, '09 , (4) Jun.17,'09

## Discussed Items:

## 1. Revision of Standards for Micro-contamination

M11-99: General Outgas Test Procedure by Dynamic Headspace Analysis: **Finished to revise**

M12-99: Measurement of Extractable/Leachable Cation Contamination Levels on Drive Components by Ion Chromatography : **On ballot**

M13-99: Measurement of Extractable/Leachable Anion Contamination Levels on Drive Components by Ion Chromatography: **On ballot**

## 2. Work shop

We had three work shops in our meetings. Eight topics on the chemical analysis and the contamination control were presented and discussed.

# Plans : July,2009- June, 2010

**IDEMA**

## 1. We will review all standards for Micro-contamination

**M1-98: Terms and Definitions for Micro-contamination**
**M2-98: Materials Used in Hard Disk Drives**
**M3-98: Effects of Contamination in Disk Drives**
**M4-98: Recommended Practice: Disk Drive Industry Default Reporting Units for Contamination**
**M5-98: Contaminant Transport Mechanisms in Hard Disk Drives: Terminology**
**M6-98: Environmental Testing for Corrosion Resistance and for Media Compatibility**
**M7-98: Organic Contamination as Nonvolatile Residue (NVR)**
**M8-98: Determination of Volatile Organic Compounds (VOC) by Static Headspace GC/MS**
**M9-98: Particulate Contamination Test Methods for Hard Disk Drive Components**
**M10-98: Special Cations Analysis**
**M11-99: General Outgas Test Procedure by Dynamic Headspace Analysis**
**M12-99: Measurement of Extractable/Leachable Cation Contamination Levels on Drive Components by Ion Chromatography**
**M13-99: Measurement of Extractable/Leachable Anion Contamination Levels on Drive Components by Ion Chromatography**

## 2. We will have the work shop on the chemical analysis, the clean process and the tribology for HDI.