



**INTERNATIONAL TECHNOLOGY ROADMAP  
FOR  
SEMICONDUCTORS  
2008 Spring Workshop  
April 3-4, 2008**

**Grand Hotel Steigenberger Petersberg”  
Koenigswinter near Bonn, Germany**

**Hosted by  
INFINEON, NXP, ST**



*International Technology Roadmap for Semiconductors*



## **EVENTS**

### **Wednesday Evening, April 2nd**

**18:00 ITRS Reception and Registration**

**Steigenberger Grand Hotel Petersberg**

**20:00 Shuttle service to Maritim Koenigswinter**

### **Thursday Evening, April 3rd**

**18:15 Namedy Castle Tour and ITRS Dinner**

# AGENDA

## **Thursday, 3 April – Steigenberger Grand Hotel Petersberg**

8:00 Shuttle service leaving from Maritim Hotel in Koenigswinter

8:30 - 9:00 Registration

9:00-10:00 Plenary Session

IRC Welcome and News: Spring workshop objectives:

2008 Update

Overview of the ORTC – Alan Allan

2008 schedule updates: Summer and Winter due dates

10:00-10:30 Break is Available

10:30-12:30 IRC/ITWG Breakouts

12:30-13:30 Lunch

13:30-17:45 IRC/ITWG Breakouts

Includes IRC/ITWG breakout session

on More than Moore and Beyond CMOS

16:00-16:30 Break is Available

17:45 Adjourn

18:00 Shuttle service leaving to Maritim Hotel Koenigswinter

18:15 Buses leaving to Narny Castle for Dinner Event

(one bus picks up guests at

Maritim Hotel Koenigswinter at 18:30)

## **Friday, 4 April – Steigenberger Grand Hotel Petersberg**

08:00 Shuttle service leaving from Maritim Hotel in Koenigswinter

08:30-12:00 IRC/ITWG Breakouts

10:00-10:30 Break is Available

12:00-13:00 Lunch

13:00-14:00 Invited talk from Rakesh Kumar on technology requirements from the Fabless Community (plenary room)

14:00-16:30 IRC/ITWG Breakouts

15:30-16:00 Break is Available

16:30-18:00 Plenary Session

IRC and ITWGs presentations on 2008 Update

18:00 Adjourn



# WORKING GROUP ROOMS

Galerie  
Galerie  
Galerie

Front end Processes  
Lithography  
Interconnect

Marmorsaal  
Marmorsaal  
Marmorsaal

Design and System Drivers  
Test  
Modeling and Simulation

SalonKoenigswinter  
Sachsen-Anhalt  
SalonSiebengebirge  
SalonOelberg

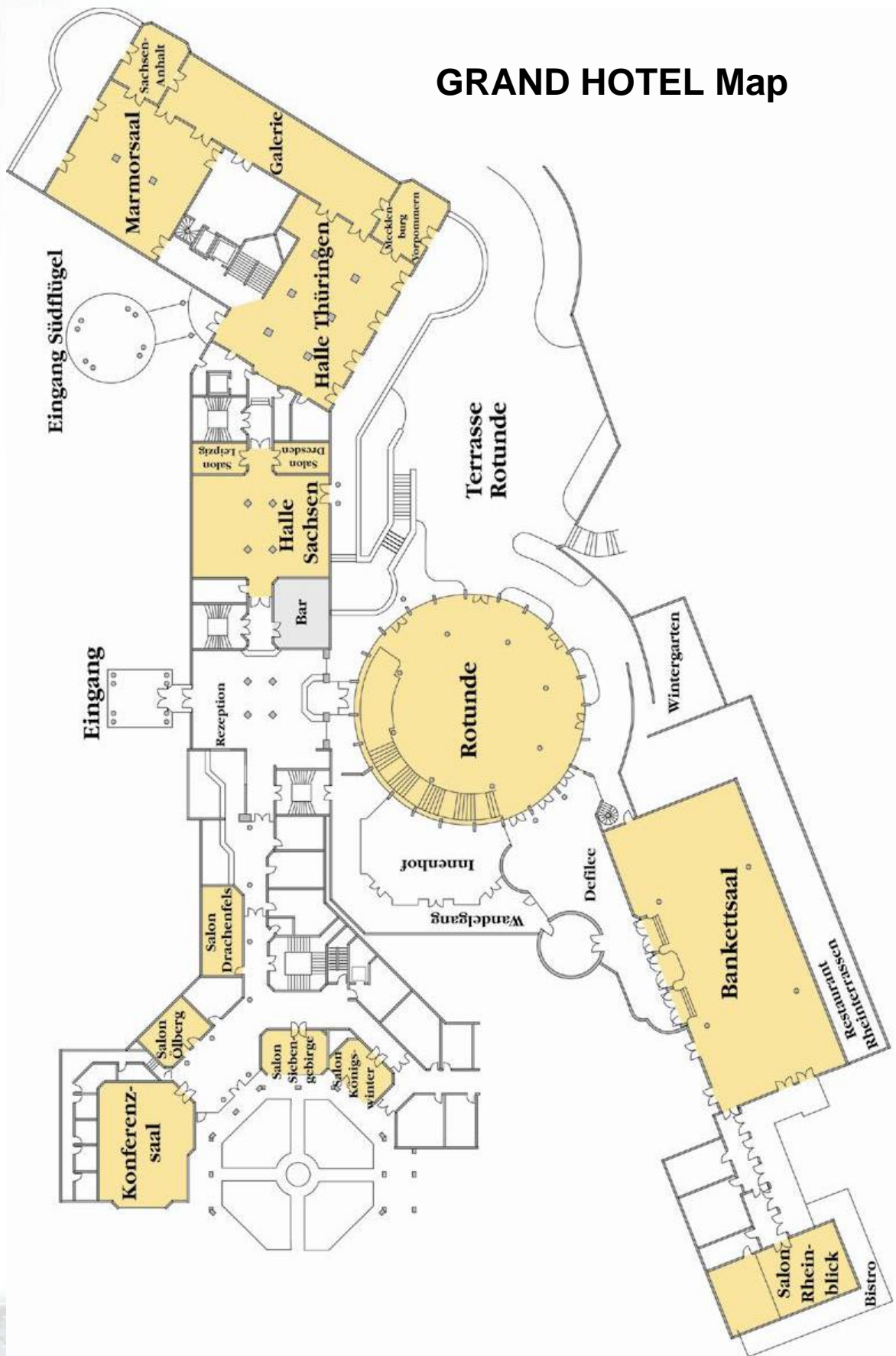
ESH -- for April 3 and 4  
Metrology  
Assembly and Pkg  
Emerging Research Materials

Konferenzsaal  
SalonDrachenfels  
Bankettsaal  
Mecklenburg-Vorpommern  
SalonRheinblick  
SalonRheinblick

Yield Enhancement  
RF and A/MS for Wireless  
Process Integration  
IRC  
Emerging Research Devices -- April 2, 3, 4  
Factory Integration -- April 2, 3, 4



# GRAND HOTEL Map



Day 1 ITWG/IRC Meetings					
8:00	Shuttle service from Maritim Koenigwinter Hotel				
	IRC Mecklenburg-Vorpommern [1]	Factory Int. Salon Rheinblick [2]	Modeling Marmorsaal [3]	Assy&Pkg Salon Siebengebirge	Lithography Galerie
8:30-9:00	Registration				
9:00-10:00	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal
	10:00-10:30 Coffee Break is Available				
10:30-11:30	IRC	Factory	Modeling	Assy&Pkg	Lithography
11:30-12:00	IRC	Factory	[meet in Design area]	Assy&Pkg / Interconnect	Lithography / ERM
12:00-12.30	IRC	Factory	Modeling / PIDS	Assy&Pkg / ERM	Lithography / Metrology
12:30-13:30	LUNCH				
13:30-14:00	IRC	Factory	Modeling/ ERD	Assy&Pkg/ ESH	Lithography
14:00-14:45	IRC	Factory	Modeling	Assy&Pkg	Lithography
14:45-15:30	In Plenary Room MtM Meeting with IRC/ TWGs	Factory	[meet in FEP area]	In Plenary Room MtM Meeting with IRC/ TWGs	Lithography
15:30-16:30		Factory	Modeling / ERM		Lithography / Yield
	16:00-16:30 Coffee Break Available				
16:30-17:00	CTSG In Plenary Room Meeting with Litho/FEP/Yield Interconnect Design/PIDS	Factory	Modeling	Assy&Pkg	CTSG In Plenary Room Meeting with Litho/FEP/Yield Interconnect Design/PIDS
17:00-17:45		Factory	Modeling	Assy&Pkg / Test	
17:45	Adjourn				
18:00	Shuttle service leaving to Maritim Koenigwinter Hotel				
18:15	Bus service leaves Steigenberger Grand Hotel for Namedy Castle Dinner Event				
18:30	Bus service leaves Maritim Koenigwinter Hotel for Namedy Castle Dinner Event				

Day 2 ITWG/IRC Meetings					
8:00	Shuttle service from Maritim Koenigwinter Hotel				
	IRC Mecklenburg-Vorpommern	Factory Int. Salon Rheinblick	Modeling Marmorsaal	Assy&Pkg Salon Siebengebirge	Lithography Galerie
8:30-9:15	Beyond CMOS [IRC, PIDS, ERM, ERD, Design]	Factory	Modeling	Assy&Pkg	Lithography
9:15-10:00	IRC	Factory/ FEP	Modeling	Assy&Pkg	Lithography
10:00-10:30 Coffee Break is Available					
10:30-11:15	IRC	Factory	Modeling / Interconnect	Assy&Pkg	Lithography
11:15-12:00	IRC	Factory	[Meet in Assy&Pkg area]	Assy&Pkg/ Modeling	Lithography
12:00-13:00	LUNCH				
13:00-14:00	Invited talk with Rakesh Kumar				
14:00-14:45	IRC	Factory/ Yield	Modeling	[meet in Design area]	Lithography
14:45-15:30	IRC	Factory / Metrology	Modeling	Assy&Pkg	Lithography / ESH
15:30-16:00	IRC	Factory / Litho	Modeling	Assy&Pkg / Wireless	[meet in Factory area]
16:00-16:30	IRC	Factory/ESH	[meet in Litho area]	Assy&Pkg	Lithography / Modeling
15:30-16:00 Coffee Break Available					
16:30-18:00	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal
18:00	Adjourn				

**Day 1 ITWG/IRC Meetings**

<b>8:00</b>	<b>Shuttle service from Maritim Koenigwinter Hotel</b>				
	FEP Galerie	RF/AMS Wireless Salon Drachenfels	ESH Salon Koenigwinter	Interconnect Galerie	Metrology Sachsen-Anhalt
<b>8:30-9:00</b>	<b>Registration</b>				
<b>9:00-10:00</b>	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal
	<b>10:00-10:30 Coffee Break is Available</b>				
<b>10:30-11:30</b>	FEP	RF/AMS Wireless	ESH	Interconnect	Metrology
<b>11:30-12:00</b>	FEP	RF/AMS Wireless	ESH	[Meet in Assy&Pkg area]	Metrology/ ERD
<b>12:00-12:30</b>	FEP/ ERD	[Meet in Design area]	[meet in Interconnect area]	Interconnect / ESH	[meet in Litho area]
<b>12:30-13:30</b>	<b>LUNCH</b>				
<b>13:30-14:00</b>	FEP / PIDS	RF/AMS Wireless	[meet in Assy&Pkg area]	Interconnect/ Test	Metrology/ Yield
<b>14:00-14:45</b>		RF/AMS Wireless	ESH	[meet in Yield area]	Metrology
<b>14:45-15:30</b>	FEP / Modeling	In Plenary Room MtM Meeting with IRC/ TWGs	ESH/ERM	In Plenary Room MtM Meeting with IRC/ TWGs	Metrology
<b>15:30-16:30</b>	FEP/ Metrology		ESH		[meet in FEP area]
	<b>16:00-16:30 Coffee Break is Available</b>				
<b>16:30-17:00</b>	CTSG In Plenary Room Meeting with Litho/FEP/Yield Interconnect Design/PIDS	RF/AMS Wireless	ESH	CTSG In Plenary Room Meeting with Litho/FEP/Yield Interconnect Design/PIDS	Metrology
<b>17:00-17:45</b>		RF/AMS Wireless	ESH		Metrology
<b>17:45</b>	<b>Adjourn</b>				
<b>18:00</b>	<b>Shuttle service leaving to Maritim Koenigwinter Hotel</b>				
<b>18:15</b>	<b>Bus service leaves Steigenberger Grand Hotel for Narny Castle Dinner Event</b>				
<b>18:30</b>	<b>Bus service leaves Maritim Koenigwinter Hotel for Narny Castle Dinner Event</b>				

Day 2 ITWG/IRC Meetings					
8:00	Shuttle service from Maritim Koenigwinter Hotel				
	FEP Galerie	RF/AMS Wireless Salon Drachenfels	ESH Salon Koenigwinter	Interconnect Galerie	Metrology Sachsen-Anhalt
8:30-9:15	FEP	RF/AMS Wireless	ESH	Interconnect	Metrology
9:15-10:00	[Meet in Factory area]	RF/AMS Wireless	ESH	Interconnect/ ERM	Metrology
10:00-10:30 Coffee Break is Available					
10:30-11:15	FEP/ ERM	RF/AMS Wireless	ESH/Yield	[meet in Modeling area]	Metrology
11:15-12:00	FEP/Yield	RF/AMS Wireless	ESH	Interconnect	Metrology
12:00-13:00	LUNCH				
13:00-14:00	Invited talk with Rakesh Kumar				
14:00-14:45	FEP/ Interconnect	RF/AMS Wireless	ESH	[meet in FEP area]	Metrology
14:45-15:30		[Meet in PIDS area]	[meet in Litho area]		[meet in Factory area]
15:30-16:00	FEP / ESH	[Meet in AssyPkg area]	[meet in FEP area]	[meet in Metrology area]	Metrology / Interconnect
16:00-16:30	FEP	[meet in Test area]	[meet in Factory]	Interconnect	Metrology / /ERM
15:30-16:00 Coffee Break Available					
16:30-18:00	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal
18:00	Adjourn				

Day 1 ITWG/IRC Meetings

8:00	Shuttle service from Maritim Koenigwinter Hotel					
	FIDS Bankettsaal [Plenary Room]	Yield Enhnc. Konferenzsaal	Design Marmorsaal [3]	Test Marmorsaal [3]	ERM Salon Oelberg	ERD Salon Rheinblick
8:30-9:00	Registration					
9:00-10:00	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal
	10:00-10:30 Coffee Break is Available					
10:30-11:30	FIDS	Yield	Design	Test	ERM	ERD
11:30-12:00	FIDS	Yield	Design/ Modeling	Test	[Meet in Litho area]	Meet in Metrology
12:00-12:30	[meet in Modeling area]	Yield	Design/ Wireless	Test	[ERM meet in Assy&Pkg area]	[Meet in FEP area]
12:30-13:30	LUNCH					
13:30-14:00	[meet in FEP area]	[Meet in Metrology area]	Design	Meet in Interconnect	ERM	Meet in Modeling
14:00-14:45		Yield/ Interconnect	Design/ ERD	Test	ERM	Meet in Design
14:45-15:30	In Plenary Room M&M Meeting with IRC/ TWGs	Yield/ Test	In Plenary Room M&M Meeting with IRC/ TWGs	Meet in Yield	[Meet in ESH area]	In Plenary Room M&M Meeting with IRC/ TWGs
15:30-16:30		[meet in Litho area]		Test	[Meet in Modeling area]	
	16:00-16:30 Coffee Break is Available					
16:30-17:00	CTSG In Plenary Room Meeting with Litho/FEP/Yield Interconnect Design/FIDS	CTSG In Plenary Room Meeting with Litho/FEP/Yield Interconnect Design/FIDS	CTSG In Plenary Room Meeting with Litho/FEP/Yield Interconnect Design/FIDS	Test	ERM	ERD
17:00-17:45				[meet in Assy&Pkg area]	ERM	ERD
17:45	Adjourn					
18:00	Shuttle service leaving to Maritim Koenigwinter Hotel					
18:15	Bus service leaves Steigenberger Grand Hotel for Narnedj Castle Dinner Event					
18:30	Bus service leaves Maritim Koenigwinter Hotel for Narnedj Castle Dinner Event					

Day 2 ITWG/IRC Meetings						
8:00	Shuttle service from Maritim Koenigwinter Hotel					
	FIDS Bankettsaal [Plenary Room]	Yield Enhnc. Konferenzsaal	Design Mammorsaal	Test Mammorsaal	ERM Salon Oelberg	ERD Salon Rheinblick
8:30-9:15	Beyond CMOS [IRC, FIDS, ERM, ERD, Design]	Yield	Beyond CMOS [IRC, FIDS, ERM, ERD, Design]	Test	Beyond CMOS [IRC, FIDS, ERM, ERD, Design]	Beyond CMOS [IRC, FIDS, ERM, ERD, Design]
9:15-10:00	FIDS/ ERD	Yield	Design	Test	[Meet in Interconnect area]	[Meet in FIDS area]
10:00-10:30 Coffee Break is Available						
10:30-11:15	FIDS/ Design	[meet in ESH area]	[meet in FIDS area]	Test	[Meet in FEP area]	ERD
11:15-12:00	FIDS/ ERM	[meet in FEP area]	Design/ Test	[meet in Design area]	[Meet in FIDS area]	ERD
12:00-13:00	LUNCH					
13:00-14:00	Invited talk with Rakesh Kumar					
14:00-14:45	FIDS	[Meet in Factory area]	Design/ Assy&Pkg	Test	ERM/ ERD	[Meet in ERM area]
14:45-15:30	FIDS/ Wireless	Yield	Design	Test	ERM	ERD
15:30-16:00	FIDS	[meet in Design area]	Design/ Yield	Test	ERM	ERD
16:00-16:30	[meet in Yield area]	Yield/FIDS	Design	Test / Wireless	Meet in Metrology area	ERD
15:30-16:00 Coffee Break Available						
16:30-18:00	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal	[at Plenary] Bankettsaal
18:00	Adjourn					



# 2008 ITRS SUMMER

*Hosted by the SIA*

## **IRC/ITWG Summer Workshop**

**14-15 July 2008**

**Marriott Hotel in San Francisco, California**

## **ITRS Summer Public Conference**

**16 July 2008**

**Moscone West, San Francisco, California**

### **REMINDERS AND NOTES:**

Send this information onto your working group members!

*Get your room with the ITRS Group Discount before May 30, 2008! See below for details and link.*

Meeting Registration Form for ITWG and IRC members has been sent to ITWG chairs and is online at [www.itrs.net](http://www.itrs.net).

[Right click and select "Save Target As..." to download to your computer.]

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Monday registration is at 8:30-9:00am.

Tuesday meeting starts at 9:00am

Wednesday registration is at 7:30-8:00am, ITRS Conference starts at 8:00am!

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### **Special events**

Monday Evening -- SEMI Presidents' Reception

*More information coming soon!*



## MEETING CONTACT

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Fax: (408) 436-6646

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## HOTEL INFORMATION

San Francisco Marriott Hotel - across from Moscone Center  
55 Fourth Street  
San Francisco, California 94103 USA  
Phone: 1-415-896-1600  
Fax: 1-415-486-8101  
<http://www.sfmarriott.com/>

A 30-minute drive from San Francisco International Airport, the Marriot Hotel San Francisco is located on the corner of Fourth and Mission Streets and a 10-minute drive from Fisherman's Wharf.

***Room Reservations expire May 30!***

Rates apply to the Hotel Marriott  
[http://www.cmrhousing.com/SEMI\\_S4/Logon.aspx](http://www.cmrhousing.com/SEMI_S4/Logon.aspx)

USER ACCOUNT: SEMIS4ITRS\_USR  
PASSWORD: ITRSUSER



## **2008 ITRS WINTER**

*Hosted by the KSIA*

**IRC/ITWG Summer Workshop  
7-8 December 2008**

**ITRS Summer Public Conference  
9 December 2008**

**COEX Intercontinental Hotel  
(<http://seoul.intercontinental.com/>)**

*More information coming soon!*



## 2008 ITRS Key Dates

- ▶ Apr 3 – 4 ITRS ITWG/IRC workshop
  - July 14** Presentation Drafts due  
1 page text summary of key changes to tables and slides in powerpoint [do NOT send PDF...]
  - ▶ Jul 14 – 15 ITRS ITWG/IRC meeting in San Francisco at the Hotel Marriott
  - ▶ Jul 16 ITRS Conference at Moscone WEST
  
  - Aug 25** **Draft Tables are due for preparation for review by all teams**
  
  - Sep 15** **2006 ITRS content is frozen**
  
  - Oct IRC Regional Executives Advisory boards' approval
  - Dec 7 Presentation Drafts due to the KSIA for preparing for December Public Conference
  - ▶ Dec 7-8 ITRS ITWG/IRC meetings in Seoul, Korea the COEX Intercontinental Hotel
- NOTE : DECEMBER 7th IS A SUNDAY!**
- ▶ Dec 9 ITRS Conference at the COEX Intercontinental Hotel
  - Dec 31** **2008 Update is posted online to the public**

