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財團法人金屬工業研究發展中心 函

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速別：最速件

密等及解密條件或保密期限：

附件：台俄半導體設備零組件技術與產業合作論壇_邀請函 (1031002404A-1-0.DOC，共1個電子檔案)

主旨：敬邀 貴單位推派人員參加 SEMICON Taiwan 2014 『台俄半導體設備零組件技術與產業合作論壇』，請查照。

說明：

一、本中心執行工業局「半導體設備暨零組件產業發展計畫」，謹訂於103年9月4日(星期四)上午9點假南港展覽館4樓402C室(台北市11568南港區經貿二路1號)，舉辦『台俄半導體設備零組件技術與產業合作論壇』

二、隨函檢附旨揭論壇議程，詳如附件，敬請公告並歡迎參加。

正本：國立聯合大學、國立宜蘭大學、國立臺東大學、國立高雄海洋科技大學、國立虎尾科技大學、國立臺南大學、國立臺北教育大學、國立勤益科技大學、國防大學、台南應用科技大學、台灣首府學校財團法人台灣首府大學、美和學校財團法人美和科技大學、環球學校財團法人環球科技大學、吳鳳學校財團法人吳鳳科技大學、國立勤益科技大學電機工程系、國立勤益科技大學電子工程系、醒吾學校財團法人醒吾科技大學、國立臺灣大學、國立政治大學、國立清華大學、國立交通大學、國立中央大學、國立成功大學、國立中興大學、國立中山大學、國立中正大學、國立臺灣海洋大學、國立彰化師範大學、國立東華大學、國立陽明大學、國立暨南國際大學、國立屏東科技大學、國立臺灣科技大學、國立臺北科技大學、國立雲林科技大學、國立高雄第一科技大學、國立臺中科技大學、國立臺北大學、國立嘉義大學、國立高雄大學、國立高雄應用科技大學、東海大學、輔仁大學學校財團法人輔仁大學、東吳大學、中原大學、淡江大學、中國文化大學、逢甲大學、靜宜大學、元智大學、中華大學、大葉大



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學、華梵大學、義守大學、世新大學、銘傳大學、實踐大學、朝陽科技大學、南臺科技大學、真理大學、大同大學、龍華科技大學、輔英科技大學、樹德科技大學、明新科技大學、弘光科技大學、正修科技大學、高苑科技大學、聖約翰科技大學、中國科技大學、大仁科技大學、嶺東科技大學、亞洲大學、開南大學、元培科技大學、遠東科技大學、台南科技大學、大華技術學院、崑山科技大學、南開科技大學、康寧大學、東南科技大學、明道學校財團法人明道大學、德明財經科技大學、大同技術學院、景文科技大學

副本：

103/08/29
14:53:34

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擬辦：

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- 2、已先將來文影送電機系知悉。
- 3、文陳閱後存。

訂

助理員許孟瑜
103.08.29

教授兼研發長林佑昇

代為行爲

103.8.29

教授兼研發長林佑昇



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SEMICON Taiwan 國際半導體展

『台俄半導體設備零組件技術與產業合作論壇』

近年俄羅斯已成為 WTO 成員，從目前平均關稅的 10.3%，降至 7.1%，ITA 產品則是降至零關稅。以人口市場與消費力道來說，俄國市場是世界各國企業競相逐鹿的新大陸。隨其國防工業技術不斷解禁導入民生工業，尤其是在半導體產業相關的應用發展與設備輸入需求是大幅成長。

在工業局半導體設備暨零組件產業發展計畫的長期支持下，針對我國半導體產業技術缺口，積極尋求國外可合作研究單位或企業公司。今年四月組織“俄羅斯電子產業科技經貿考察團”拜訪莫斯科相關單位，並受邀於俄國歷史最悠久且最大的特別經濟園區-莫斯科綠城園區(SEZ-Zelenograd)，共同舉辦「台俄半導體設備零組件技術與產業合作論壇」。本次九月四號舉辦之台北場邀請各具代表性俄國廠商的決策高層來台(如俄國專業半導體設備與零組件代理商 Ostec Enterprise Ltd. 與 CJSC «TRONIC»、俄國最大設備零組件技術的本土集團 «ESTO-Group» 旗下子公司 «ESTO-Vacuum» «ESTO-Integration» «Laser&Apparatus TM»、IC 設計 Design Center KM211 Ltd、專注於核心研究的重要知名單位 Research and manufacturing complex "Technological Centre" of National Research University of Electronic Technology (MIET) 與 Research Institute of Precision Machine Manufacturing (NIITM) 等)，並將進行俄國當地市場與技術策略講演，會中也將透過一對一商談會安排，增進台俄廠商雙方了解，希冀本合作論壇可使我國廠商對俄廠產能及俄國市場趨勢有進一步的認識，進而增進雙方在技術交流與市場擴展合作機會，並期待透過本活動，尋求俄廠與台廠攜手進軍中國市場之合作模式。

金屬工業研究發展中心 敬邀

- ◎指導單位： 經濟部工業局
- ◎主辦單位： 金屬工業研究發展中心(MIRDC)
俄羅斯綠城工業區(Development Corporation of Zelenograd)
- ◎協辦單位： 美商國際半導產業有限公司台灣分公司(SEMI Taiwan)
台灣電子設備協會(TEEIA)
台灣區電機電子工業同業公會(TEEMA)
- ◎時間： 103/09/04(四) 09:00-12:00
- ◎地點： 南港展覽館 4 樓 402C 室 (台北市 11568 南港區經貿二路 1 號)

台俄半導體設備零組件技術與產業合作論壇

Российско-Тайваньский форум по вопросам сотрудничества в области производства компонентов и оборудования для полупроводниковой электроники

時間	議程	主講人
09:00-09:30	報到 Check in	
09:30-09:40	雙方致詞 Opening remark Signing the MOU between "Development Corporation of Zelenograd" and MIRDC	伏和中 博士/金屬中心執行長 Dr. Ho-Chung Fu, President of MIRDC Igor kucheryavy, SEMI-Russia顧問團主席 Chairman, SEMI Advisory Committee for Russia
09:40-09:50	俄國半導體產業現況及台俄合作契機 The introduction of semiconductor industry in Russia and the cooperation opportunity between Taiwan and Russia	林建憲 博士/金屬中心 光電半導體推動辦公室主任(台北) Dr. Johnny J.S. Lin. Chief, Optoelectronic & Semiconductor Equipment/Components Localization Office(Taipei)/MIRDC
09:50-10:50	俄國廠商基本資料介紹與合作夥伴說明 A brief company profile introduction <ul style="list-style-type: none"> ● Joint development of microelectronics equipment and materials ● Joint development of microelectronics technologies ● Joint design of integrated circuits 	<ol style="list-style-type: none"> 1. Development Corporation of Zelenogr, Director/Anna Brusnicyna 2. LLC «ESTO-Vacuum», CEO / Danil Chelapkin 3. Scientific-production enterprise «Electron special technological equipment» («NPP «ESTO» Isc), Deputy Director General/ Anna Kudrjavceva 4. JSC «ESTO-Integration», CEO /Artjom Kuznecov 5. Design Center KM211, Ltd., CEO/ Aleksandr Lucenko 6. NIITM, CEO / Vadim Odinkov 7. "Technological Centre"of MIET, Chief engineer/Vladimir Djagilev 8. SVCS Ltd., CEO / Igor Berezenko 9. Ostec Enterprise Ltd.,Dr.Sergey Chigirinsky 10. CJSC «TRONIC», CEO/Natalia Shadskaja
10:50-11:00	Break	
11:00-12:00	一對一媒合活動 Matchmaking	採預約審核制(一對一媒合，全程備翻譯) 如媒合場次超過時間，將另備場地。

本活動費用由工業局半導體設備暨零組件產業發展計畫支持，歡迎業界先進參加!!

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1. About Zelenograd Delegation Mission for Semicon-Taiwan 2014

A) Joint R&D

<i>Joint development of microelectronics equipment and materials</i>	
Goal	Independence of clusters from foreign suppliers and creation of a full (complete) production cycle
Subject matters	Electron-beam lithography Vacuum equipment of new generation (deposition, implantation) Application researches of laser resource and equipment Development of pieces of equipment for import substitution of foreign components (parts)
<i>Joint development of microelectronics technologies</i>	
Goal	Extension of foundry-technologies package by norms 250-180-90-65nm. and big norms
Subject matters	- mixed signal - BiCMOS SiGe – SOI - power semiconductor (bulk silicon, silicon carbide) - Modern technologies of integrated circuits and PCB packaging (3D, SiP, PCB miniaturization, flexible PCB)
<i>Joint design of integrated circuits</i>	
Goal	Increasing product portfolio of clusters' companies
Subject matters	- Integrated circuits design (telecommunications and industry are segments where Taiwanese companies have strong competence, by high potential of the Russian market it will lead to transfer of design into Russia); - development of design tools (independence, full cycle); - creation of SF blocks' library;

B) Education

<i>Student exchange program</i>	
Goal	- Competitive growth of Moscow universities and their recognize ability (awareness) among Taiwanese employers
<i>Trainings of Russian specialists and university graduates in Taiwan</i>	
Goal	- Gaining experience by Russian specialists to use it in Russia;
<i>Special educational programs</i>	
Goal	Improving quality of education in Russian and Taiwanese universities



2. ESTO Group

ESTO Group is a union of Russian companies specializing in development, manufacturing, modernization, selling and maintenance of special technological equipment.

Members of ESTO Group:

- «Electronservice», JSC – engineering of planning and procurement of manufacturing processes of electronics, modernization, repair, adjustment and servicing of Russian and foreign electronic technological equipment.
- «Laser&Apparatus TM», LLC –Speaker:(«NPP «ESTO» Isc)Deputy Director General/ Anna Kudrjavceva Research, development and manufacturing of laser systems for material processing such as micromachining, marking and engraving, welding and dimensional processing, cutting, trimming.

• ESTO-Vacuum

Speaker: CEO / Danil Chelapkin

Ltd. ESTO-Vacuum is Russian developer and manufacturer of vacuum-processing equipment and vacuum technology. The company offers complete solutions for high-tech industries. The accumulated experience of the company allows you to organize all the processes in a single, integrated network from the beginning to the end of the product life cycle: design, equipment, installation and service.

ESTO-Vacuum has its own Center of Technology Services which allows doing the following processes: plasma etching, ion-beam etching, magnetron sputtering, photolithography.

Products:

- Magnetron sputtering systems
- Thermal, ion-beam and magnetron systems
- Ion-beam etchers
- Plasma etchers
- Heaters

3. Laser & Apparatus TM, LLC


Speaker:(«NPP «ESTO» Isc)Deputy Director General/ Anna Kudrjavceva

Research, development and manufacturing of laser systems for material processing such as micromachining, marking and engraving, welding and dimensional processing, cutting, trimming.

4. ESTO-Integration, JSC –

Speaker: CEO,/ Natalia Shadskaja

Resident of Special Economic Zone «Zelenograd». Enterprise develops and produces special technological new generation equipment, and also realize complex production solutions for Russian



and foreign technology.

5. **KM211**

Speaker: CEO/ Aleksandr Lucenko

Design Center KM211 is one of the leading IC design teams in Russia. In 2014 KM211 has been appointed as TSMC Value Chain Aggregator for Russia. While developing own proprietary IP, we dedicated most of our efforts on providing Design Services for companies across the world. To be efficient in the present-day microelectronics business you have to cooperate. Our major goal is to make our clients successful and wealthy.

With our tremendous experience in digital design we can provide exclusive solutions on the system level, power consumption optimization, efficient crypto-algorithms solutions and floating point calculations. We have accumulated a lot of experience in protection of on-chip data integrity as the team, that successfully developed Russian biometrical passport chip.

6. **Research Institute of Precision Machine Manufacturing (NIITM)**

Speaker: CEO / Vadim Odinkov

Research Institute of Precision Machine Manufacturing (NIITM) was established in 1962 in Zelenograd to become a key enterprise with the main focus on creation of specific processing equipment for electronic industry.

Equipment based on NIITM development formed the foundation of semiconductor production in Russia and Soviet republics. Equipment of the company was exported to the CMEA countries and China.

Research and production activities of NIITM are marked by a variety of fundamental and applied researches and developments: a number of scientific works are published; more than 600 certificates for the invention and patents are received. Innovative projects of the company are awarded by state decorations, Orders and Medals at international exhibitions.

Nowadays Research Institute of Precision Machine Manufacturing belongs to a group of companies "Micron" - the largest producer and exporter of integrated circuits in Russia and the CIS countries.

NIITM offers services for development of a wide range of research and industrial technological equipment and supplies vacuum-plasma and physical and thermal chambers as well as clusters based on it for process implementation in nano-, micro- and electronics, medicine, solar energy, etc.

7. **Technological Centre of MIET**

Speaker: Chief engineer/Vladimir Djagilev

MIET is a modern innovation complex, whose advanced infrastructure has become the basis for the development of innovation activities in prior branches of science and technology, particularly in designing integrated circuits,





navigation and control systems, optoelectronics, microsystem technology, telecommunications systems, hard- and software complexes for information security, data processing and communications.

MIET Innovation Complex includes research laboratories, state research centre, innovation development department, technology commercializing and transfer centre, business-incubator, techno-park, innovation centres and a network of shared-use centres. Innovation Complex hosts 35 research-technical companies and maintains ties with over 120 companies in Zelenograd.

At present, Technological Centre is an independent scientific organization. In close collaboration with MIET it continues developing its traditional links with various research organizations – customers, research institutes of the Russian Academy of Sciences, Russian and foreign universities. Its equipment base is regularly updated, the range of technology and research, development and production in the fields of microelectronics, microsystem technology, electronics and nanotechnology is expanded. The team of Technological Centre sees in these areas the guarantee of its successful development in the future. MIET Technological Centre is the only Russian state scientific centre, where integrated research and development are carried out, in the field of micro-and nano-electronics, micro-and nanosystem technology and devices of special purpose based on them.

8. SVCS

Speaker: CEO / Igor Berezenko

SVCS is a global company manufacturing ultra-high purity equipment used for various semiconductor, MEMS and photovoltaic applications. SVCS main products are atmospheric, LPCVD and PECVD thermal reactors for both mass production and/or research and development. Other SVCS products include various gas source systems like gas cabinets, valve manifold boxes and custom equipment gas manifolds. The heart of all SVCS tools is in-house designed control system that can be used either for new equipment and also for refurbishment of third party tools. Based on latest technologies, this modular system enables remote access and can be interfaced to advanced manufacturing execution systems


9. Ostec Enterprise Ltd.

Speaker: Dr.Sergey Chigirinsky

Ostec Enterprise Ltd. is the biggest engineering company in Russia and the CIS, a developer of integrated solutions to increase the efficiency of enterprises of advanced technology. The company was founded in 1991 by a group of professionals who had worked in the Central Research Institute of Technology (CNITI).






Over the last 20 years the company has completed over 2,000 comprehensive projects on the equipment of manufacturers of advanced technologies with modern technology and equipment. Today more than 80% of all enterprises of the radio and electronic industry in Russia have

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equipment and technology solutions supplied by Ostec. The company provides a full range of work starting from audits of companies to fine-tuning of the process using the Client's products with the subsequent technological support of the production.

The Main Divisions

-  Radioelectronic Components Manufacturing
-  Electronic Components Manufacturing
-  Chemical Engineering Solutions
-  Electrical Components Manufacturing
-  Test and Inspection

10. Tronic Group

Speaker: CEO, / Natalia Shadskaja

Tronic Group was established in late 1993 in Singapore. Our first activities were in the trading of electronic and IT products where we sourced from Asian countries and mainly sold to key markets in the CIS.

Semiconductor Solution

Advanced Materials Supply Chain Services

Due to our commitment to technical expertise and complete customer satisfaction, Tronic provides the best service to meet customer request and cost effective advanced material solution in semiconductor industry. Tronic supplies a full line of world-class products across a range of semiconductor process, including photoresist, photomasks, chemicals, process gas, PVD target, wafers, cassette, cleanroom consumables, probe card and load board for testing. The high quality products are not only meeting our customers' needs but also with fast delivery to achieve a significant cost-savings to our customers. Besides helping semiconductor manufacturers lower the cost of ownership, Tronic devote itself to reducing environmental impact and improving our customer's productivity. Tronic is continuing to expand its product and services portfolio and building up our global supply and management system.

- ▶ Photoresist
- ▶ Chemical
- ▶ Cassette
- ▶ PVD Sputter Target
- ▶ Probe Card
- ▶ Clean room garment, boots, glove, wiper, ESD products
- ▶ Photo Mask & Pellicle & Mask Box
- ▶ Process Gas
- ▶ Wafer
- ▶ Load Board



Semiconductor Equipment Business

Tronic is driven by a vision to provide integrated best-practice equipment solutions and services for high-tech industry. For over 15 years, we have contributed to the success of semiconductor industries through lowered costs, improved efficiency and the most advanced range of technology equipment in the industry. We are known for our commitment to continually seek out smarter solutions that result in competitive advantage for both our customers and partners.

❖ Semiconductor Equipment

- Over the past 15 years, Tronic has formed strategic cooperation with many of the world's leading advanced technology equipment manufacturers, including widely recognized names like ASML, ASM , Asyst.... These relationships have provided Tronic the ability to deliver many of the semiconductor industries' most competitive technology solutions, and have ultimately contributed to the success of Russia within semiconductor industries.
- Tronic provide new equipments' Installation/operation/maintenance service.

台俄半導體設備零組件技術與產業合作論壇

報名回條

公司名稱				
公司地址				
統一編號			公司主要產品	
電話			傳真	
姓名	職稱	分機	手機	E-MAIL
報名聯絡人	職稱		分機/手機	
E-mail				
訊息來源	<input type="checkbox"/> 網站 <input type="checkbox"/> 電子郵件 <input type="checkbox"/> 郵寄 DM		報名日期	年 月 日
參加媒合會 <input type="checkbox"/> 是 <input type="checkbox"/> 否				
LLC «ESTO-Vacuum»	«NPP «ESTO» Isc		JSC «ESTO-Integration»	CJSC «TRONIC»
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Design Center KM211	NIITM		SVCS Ltd.	Ostec Enterprise
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*本活動為免費入場，惟因場地限制，敬請預約報名，以免向隅。

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許芳茹 小姐 E-MAIL：silvy@mail.mirdc.org.tw 電話：07-6955298#216

吳秋燁 小姐 E-MAIL：jasmine@mail.mirdc.org.tw 電話：07-6955298#262



財團法人金屬工業研究發展中心

個人資料蒐集、處理、利用告知暨同意書

本中心因受經濟部工業局委託執行/辦理國內外技術合作之事由，蒐集、處理及利用您所提供，或未來將提供的個人資料，茲依據個人資料保護法（以下稱個資法）第8條規定告知下列事項：

(一)蒐集目的：辦理本次活動及相關行政管理。

(二)個資類別：辨識個人者如姓名、職稱、聯絡方式、地址等。現行之受僱情形如公司名稱、部門、職稱等。

(三)利用期間：至蒐集目的消失為止。

(四)利用地區：除蒐集之目的涉及國際業務或活動外，本中心僅於中華民國領域內利用您的個人資料。

(五)利用對象及方式：於蒐集目的之必要範圍內，利用您的個人資料。

(六)當事人權利：您可向本中心「個資當事人權利行使窗口」行使查詢或請求閱覽、製給複製本、補充或更正、停止蒐集處理利用或刪除您的個人資料之權利，電話：07-695-5298 轉 216。

(七)不同意之權益影響：若您不同意提供個人資料，本中心將無法為您提供特定目的之相關服務。

辦理本次活動外其他蒐集目的告知：

蒐集目的：寄送本中心舉辦之活動或產業相關之訊息。

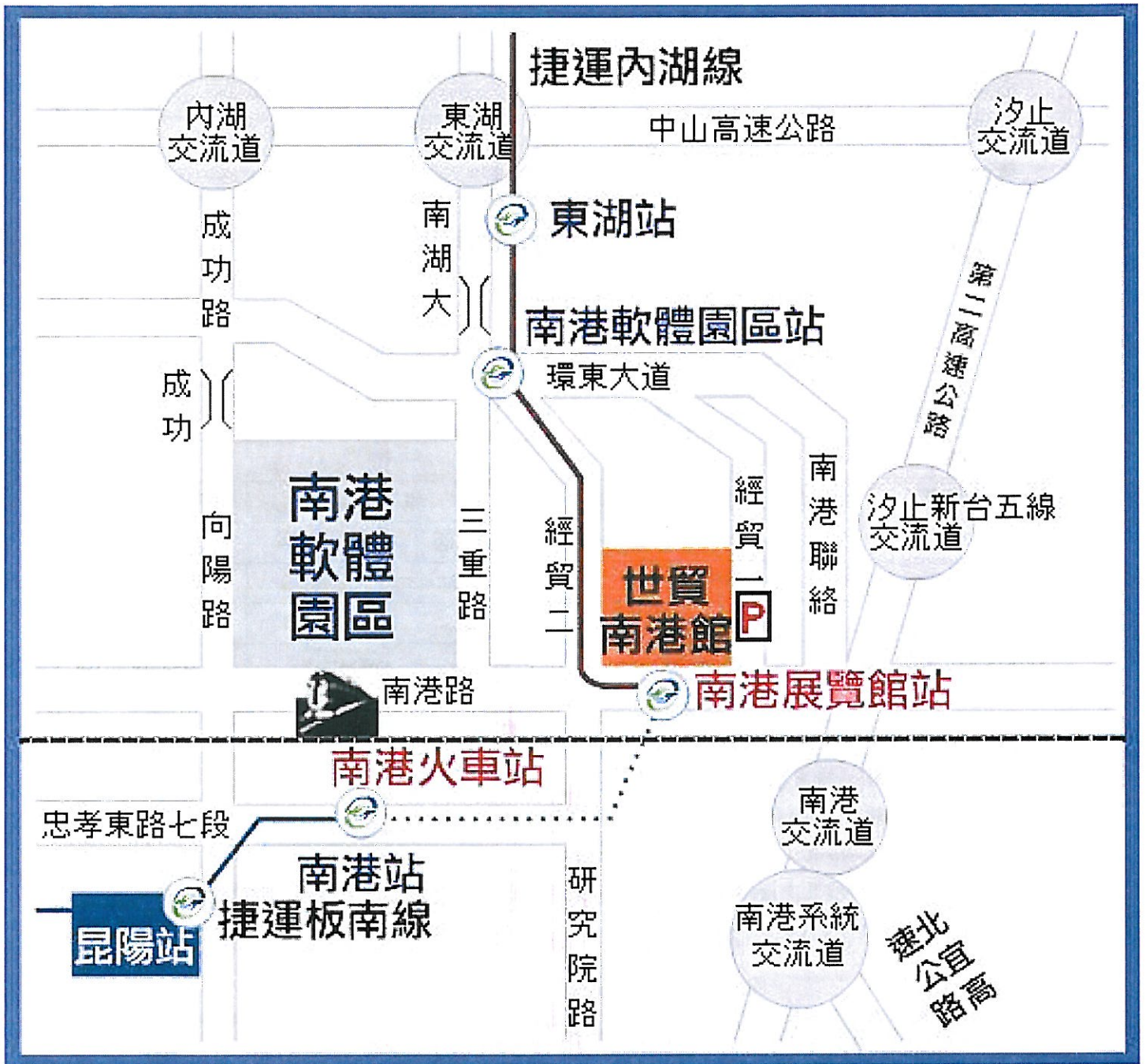
本人已閱讀並了解上述之告知事項，並同意 貴中心在符合上述告知事項範圍內蒐集、處理及利用本人個人資料。

立書人簽名：

日期： 年 月 日



南港展覽館 位置圖



南港展覽館 4樓 402C 室 (台北市 11568 南港區經貿二路 1 號)



交通資訊

1.開車前往南港展覽館

■走國道一號 (中山高速公路)

- ◎北上(從桃園, 新竹出發): 東湖交流道(15.2km 處)下高速公路, 右轉接康寧路, 過南湖大橋後接三重路, 左轉經貿二路至南港展覽館
- ◎南下(從汐止, 基隆出發): 內湖交流道(16.8km 處)下高速公路, 接成功路, 直行過成功橋, 左轉接重陽路至南港展覽館

■走國道三號 (福爾摩莎高速公路)

- ◎北上(從桃園, 新竹出發): 新台五路交流道(12.7km 處)下高速公路, 接新台五路, 左轉大同路, 直行接南港路至南港展覽館
- ◎南下(從汐止, 基隆出發): 新台五路交流道(12.7km 處)下高速公路, 接新台五路, 左轉大同路, 直行接南港路至南港展覽館

2.從機場前往南港展覽館

- 台北松山國際機場 (Taipei SongShan Airport): 從松山機場站搭乘 轉乘台北捷運 MRT 文湖線(棕線) 至南港展覽館站
- 桃園中正國際機場 (CKS Airport): 搭乘國光客運 1843 路巴士(Hyperlink: <http://www.kingbus.com.tw/index.php>), 從中正國際機場至南港展覽館 (第一航站: +886 3 383 4004 / 第二航站: +886 3 383 3157), 單程票 NT\$115, 交通時間: 80mins

3.搭乘台北捷運 MRT 前往 南港展覽館

- 搭乘板南線(藍線) 至南港展覽館站
- 搭乘文湖線(棕線) 至南港展覽館站

4. 搭乘台灣鐵路(火車)前往南港展覽館

- 搭乘台鐵至南港火車站, 步行三分鐘至捷運南港站搭乘板南線(藍線)至南港展覽館站
- 搭乘台鐵至台北火車站, 轉乘台北捷運 MRT 板南線(藍線)至南港展覽館站
- 搭乘台鐵至板橋火車站, 轉乘台北捷運 MRT 板南線(藍線)至南港展覽館站

5. 搭乘台灣高鐵前往南港展覽館

- 搭乘台灣高鐵至台北車站,轉成台北捷運 MRT 板南線(藍線)至南港展覽館站
- 搭乘台灣高鐵至板橋車站, 轉乘台北捷運 MRT 板南線(藍線)至南港展覽館站

6. 搭乘市區公車前往南港展覽館

- 市區公車資訊請洽: www.5284.com.tw/index.aspx , www.twtcnangang.com.tw

7. 搭乘計程車前往南港展覽館

- 台北市計程車費率: 計程車可在主要道路上招乘,計程表起跳 70 元,1.5 公里後每 300 公尺跳 5 元,晚上 11:00 到早上 6:00 為夜間加成時段,夜間加成起跳 70 元 1.25 公里後每 250 公尺跳 5 元,最後計程表上需多加 20 元的夜間加成費用

8. SEMICON Taiwan 免費接駁服務

