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Review of Technology & Economic Development

The Newsletter of Technopolis Times

<http://www.generalinformatics.com/technopolistimes.html>

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***Only RTED** gives you current, need-to-know news and resources for economic development with a specific and exclusive focus on **technology-driven industries** in metro regions and citistates.*

TECHNOPOLIS COLUMNS NOW IN PRINT

Communities around the world are trying to duplicate the Silicon Valley phenomenon, and for an excellent reason: Techno-regions have generated most of the new jobs in the past decade. However, problems persist. ***Social Culture and High Tech Economic Development: The Technopolis Columns*** highlights the potential pitfalls and suggests methods by which a sustainable, distinctive and prosperous technology-based regional economy can thrive.

Palgrave-Macmillan has just published this new book by the editor of this newsletter. *The Technopolis Columns* is priced at about £55 (US\$85 at Amazon.com), and there is a **50% discount** for orders placed at economic development conferences. Drop me an email at tt@generalinformatics.com if you wish to be informed about these conferences, or if you're hosting one! I'm also available to speak at your event.

Order the book directly from the publisher, at <https://www.palgrave.com/products/Catalogue.aspx?is=1403999511> , or at Amazon.com, http://www.amazon.com/gp/product/1403999511/ref=sr_11_1/102-6371579-3320129?%5Fencoding=UTF8 .

REPORTS

Universities and Economic Development

<http://www.siteselection.com/features/2006/may/universities/>

"*Borderless Innovation*, issued in January by the University of California- San Diego Cross-Border Innovation and Competitiveness Initiative, sees opportunity and "untapped capabilities" for both sides of the San Diego-Baja California region, specifically in biomedical devices, software, marine biotech, aerospace and defense."

<http://www.siteselection.com/features/2006/may/mexico/pg02.htm>

CONFERENCES & MEETINGS

Border Economic Forum 2006. Friday, May 26, 2006 8 a.m.-3 p.m. El Paso Natural Gas Conference Center University of Texas at El Paso 500 W. University Ave. El Paso, TX 79968. Sponsored by:

University of Texas at El Paso, College of Business Administration

U.S. Department of Education Business and International Education Program

Federal Reserve Bank of Dallas, El Paso Branch

Speakers include: Abraham Vela Dib, Banco de México, Agustín del Río Toffe, Banco de México, Monterrey Branch, Keith R. Phillips, Federal Reserve Bank of Dallas, San Antonio Branch, Alan D. Viard, Federal Reserve Bank of Dallas. For a complete list of speakers and to register online, visit

<http://www.dallasfed.org/news/research/2006/06borderforum.html>

International Federation for Information Processing, IFIP-TC9 "Relationship Between Computers and Society." <http://www.hcc7.org>

Seventh International Conference Human Choice and Computers (HCC7): Social Informatics: An Information Society for All? Maribor (Slovenia) September 21-23, 2006.

Workshop on Regional Clusters as Innovation Drivers. http://www.innovating-regions.org/network/events/eventDetails.cfm?eve_id=375 30-31 May 2006, Brussels, Belgium. The event aims to enhance the participants' understanding about the establishment, implementation and impact of innovative regional clusters. The workshop will highlight the catalytic role played by regional authorities in creating the right framework conditions for the development of clusters and innovation networks, and will focus on certain critical factors that determine the success/failure of clusters. Participation free of charge. Royal Crown Hotel – Koningsstraat 250 rue Royale 1210 Brussels.

More conferences are listed at <http://www.innovation-enterprise.com/conferences/>. Free listings are offered at this site by the journal *Innovation: Management, Policy & Practice*, for conferences within the aims and scope of the journal.

ARTICLES OF NOTE

The magazine of the **Software Association of Oregon** interviewed me as one of the 'godfathers' of the growing Northwest Education Cluster. The writer garbled much of what I told her, but here it is:

http://www.sao.org/Resource_Center/newsletter_articles/200603/200603_geraldine_power_industry_news_2.php

F. Phillips, "The Godfathers: Characteristics and Roles of Central Individuals in the Transformation of Techno-Regions" has been submitted to *Entrepreneurship Theory and Practice*, and will be presented at the 9th International Conference on Technology Policy

and Innovation (ICTPI), Santorini (Thera), Greece, June 18-21, 2006.
<http://laertis.chemeng.ntua.gr/santorini/main.php?intro>

The next article is on a subject similar to "The Godfathers," but deals with entrepreneurship facilitators who are (they won't be insulted by this) not quite of the stature of Frederick Terman, Lee Kwan Yew, or Morris Chang:

Cromie, S. Birley, S. Callaghan, I., Community brokers: their role in the formation and development of business ventures. *Entrepreneurship and Regional Development* 1993, Vol 5; Number 3, page 247. ISSN 0898-5626. £13.00 copyright fee + service charge at <http://direct.bl.uk/bld/PlaceOrder.do?UIN=008375549&ETOC=EN&from=searchengine>

Maryann P. Feldman and Johanna L. Francis, Homegrown Solutions: Fostering Cluster Formation. *Economic Development Quarterly*, Vol. 18, No. 2, 127-137 (2004)
<http://edq.sagepub.com/cgi/content/abstract/18/2/127>

TOP OF THE NEWS

Congress increases budgets of US federal labs

(Keith Girard's Daily News Digest, May 31, 2006) For the first time in 15 years, The FY 2007 Energy and Water Development Appropriations Bill provides significant increases for government-sponsored research laboratories

"We're coming off 14 lean years of R&D spending that has resulted in layoffs at several labs," said David Peyton, technology policy director for the National Association of Manufacturers. "The importance of the increase in basic R&D spending cannot be overstated.... The labs maintain key facilities that no one company can afford by itself."

Portland and the Northwest

The current edition of *CNN Global Office* finished up with, "Next time we'll head to Portland in the USA to see what's behind the open source movement." This journal (yes, *Review of Technology & Economic Development*) helped make **Portland** the **US center for open-source software**, by convincing the Beaverton City Council to open a software incubator. Friend of *RTED* LaVonne Reimer, as the incubator's first Director, focused it on open source and allied it with Linus Torvald's **Open Source Development Laboratory**, also in Beaverton. (See also the article below on **Stuttgart**'s open source activity.)

Meuse-Rhine Triangle

Cell Farming (*Meuse-Rhine Journal*, Maastricht April 24): In the Biopartner 3 building, across the street from *RTED* sponsor Maastricht School of Management, **Pharmacell** <http://www.pharmacell.nl/> will culture heart muscle cells to repair those that have been destroyed in heart attacks. The **Maastricht** area is home to several hundred biotech and medical device companies, and these will be strengthened by a technology partnership between **Singapore** and the province of **Limburg**. Chairman Philip Yeo of Singapore's **Biopolis** visited Maastricht in October 2005 and sewed up the new alliance with Dutch foreign investment agency boss Jochum Haakma, Limburg's entrepreneurial authority on

the life sciences Jan Thio, and Steven Fang, Group CEO of **CyGenics**.

Fang estimates that Limburg's multiplicity of languages, and cutting edge solutions in logistics and the life sciences, make the Meuse-Rhine a natural testbed for advances that could later be replicated elsewhere in Europe. Gerard Bos a leading oncologist in Maastricht, will lead the Pharmacell program.

Meuse-Rhine Journal sees the program as a harbinger of a personalized medicine/ personalized nutrition cluster for Limburg, in which “**DSM** [Corp.] is already taking an interest.... The Meuse-Rhine has traditionally been an area for rest and recuperation as well as for warfare. Charlemagne started the trend by taking the waters in Aachen to soothe his rheumatism. Europe's aristocracy from the XVIIth and XVIII centuries also went to Spa for the same purpose. They were also able to while away their days at the gaming tables. Well now it looks as if the culture of wellness and diversion is about to be reborn in Meuse-Rhine because vast numbers of the affluent gray tigers of the ageing generation will be seeking diversion and comfort, while their cells are being farmed (or cultured) in the nearby labs.”

Meuse-Rhine Journal (February 17) also reports on progress toward branding Limburg. Governor of Belgian Limburg Steve Stevaert spoke at Maastricht School of Management, in part about branding. Should the region be defined as Limburg or Meuse-Rhine? “Maastricht is a brand in its own right, but seems to have become shorthand for the EU.” The Journal notes that “Bauhaus Europa” is a brand name being considered for Aachen. “Both Limburgs [Belgium and the Netherlands] and the Province of Liège were part of the Liège country and the principality of the same name, which lasted for 800 years up to the French Revolution. The ecclesiastical diocese of the Principality, whose merchants walked the streets of London 75 years before the Norman Conquest, reached to Aachen too. The brand was already established then.” <http://www.limburg.be>

Governor Leon Frissen of Dutch Limburg, at the same talk, said he wants to position Limburg as a European top technology region in the Eindhoven, Louvain, Aachen triangle. This triangle offers leading companies, universities and research institutes, and an attractive living environment. Clusters targets include: chemicals, health care and cure, food/nutrition, energy, high-tech production, and value-added logistics.

A total investment of 7 million euros is committed from various parties to increase Limburg's competitiveness in molecular medicine, design and technology, automotive technology, and a Dutch manufacturing institute.

Farewell Helmut Breuer [by Stafford Wadsworth, *Meuse-Rhine Journal*, February 10] “Professor Helmut Breuer, Professor of Economic Geography at the RWTH University in **Aachen**, is retiring after 30 years of service. Professor Breuer is the presiding academic genius in all matters Euroregional and he has also been Honorary Consul for The Netherlands in Aachen for the last five years. One hopes that, despite his retirement, his voice will not disappear from the Councils of the wise on the Euroregional scene.”

Worldwide

EE Times' Christoph Hammerschmidt writes, "Speculation is running rampant in Germany over whether **AMD plans to build another fab in Dresden**. CEO Hector Ruiz said last year that AMD would consider adding a third fab there, but he's also suggested that the company might build its next fab in **Singapore**, where it has operated back-end facilities since 1984. The decision is an important one for the people of Dresden, to be sure, but it also underscores the larger question of where the chips of the future will be built. As more semiconductor manufacturing heads to Asia, decisions like the one that AMD appears poised to make will play a big part in determining whether some manufacturing will continue in the West, or whether the business will be concentrated in Asia."

A European Institute of Technology? The idea of establishing a European Institute of Technology (EIT) in **Paris** seems to have pros and cons. But it appears that if it can be funded, it will happen. Sources:

<http://europa.eu.int/rapid/pressReleasesAction.do?reference=IP/05/1150&format=HTML&aged=0&language=EN&guiLanguage=en>

http://ec.europa.eu/education/policies/educ/eit/index_en.html

<http://www.euractiv.com/en/science/current-plans-european-institute-technology-face-opposition/article-138969>

<http://www.euractiv.com/en/science/france-build-european-institute-technology-paris/article-145671>

<http://www.bcs.org/BCS/News/PositionsAndResponses/Responses/eit.htm>

<http://www.eet.com/news/latest/showArticle.jhtml?articleID=186701123>

□

U.S. investments in **Israel** growing, reports *EE Times'* Joel Bainerman. "Oracle Corp. has made its first investment in Israel, and other U.S., Canadian and European companies are boosting stakes there." Furthermore, "Israeli exports of **homeland security** equipment" are growing at 22% p.a., "reaching \$300 million in 2005. As a result, Israeli security start-up companies are attracting larger sums of international venture capital." A summary of the players:

- **Oracle** investing in **Yadata** Ltd., (segment relationship management software)
- **Lucent** Venture Partners investing in **Kailight** Photonics (optical modules for optical regeneration, wavelength management and signal conditioning technology)
- **Intel**, **AT&T Corp**, **France Telecom**, and **3Com** investing in Ethernet vendor **Atrica**
- **Sequoia** Capital investing in **Scent Detection Technologies** (trace detection sensor and mobile hand-held sniffing devices)
- French based **Partech International** investing in **Idesia** (biometric identification technology)

<http://www.eet.com/news/latest/showArticle.jhtml?articleID=185302603>

Globalization of financial flows should mean it doesn't matter on what bourse a company is listed. However, it is almost universally believed that it does matter. It's sort of a "home team" thing. That's why it upsets prominent bigwigs that more and more **American small businesses** are launching initial public offerings (**IPOs**) of stock **outside the US**.

"A shift towards foreign IPO financing would represent a significant and detrimental loss to our ... ability to create and capitalize the world's best and brightest companies," Sen. Olympia J. Snowe, R-Maine, wrote to SEC Chairman Christopher Cox. Former Fed Chairman Alan Greenspan also said he was "disturbed" by this trend.

The Government Accounting Office reports that US IPOs involving small-cap companies decreased to about 46 percent in 2004 from 70 percent of all IPOs in 1999.

It is surmised that the Sarbanes-Oxley Act plays an explanatory role in this trend. SOX substantially increases financial reporting requirements for public companies.

(Keith Girard, SMBs Increasingly Launch IPOs Overseas

http://www.allbusiness.com/news/daily_news.asp?ID=2975941&dailyn=5_19_2006#2975938)

ST seeks partners in Sicilian fab

Carlo Bozotti, president and chief executive officer of **ST Microelectronics**, told a financial analysts' meeting held in London that the company was looking to share the cost of equipping its 300-mm wafer fab in **Catania, Italy**. One candidate firm under consideration is **Freescale Semiconductor**, according to Denis Griot, senior vice president.

<http://newsletter.eetimes.com/cgi-bin4/DM/y/hwIU0GKNt80FrK0EXtv0E8>

See also <http://newsletter.eetimes.com/cgi-bin4/DM/y/hwnn0GKNt80FrK0EYAI0Ez>

JOBS

Professor David Plane has forwarded this opportunity:

ECONOMIC ANALYST – Unparalleled opportunity to participate in leading-edge regional economic analysis and modeling at the **Denver Regional Council of Governments**, in the heart of the Rocky Mountain Region, working with an interdisciplinary team to implement an UrbanSIM-based, disaggregate socioeconomic forecasting model, as part of a project to completely update the region's modeling system. The Denver region is developing rapidly, and our recently approved transit sales tax will fund the largest rapid transit system enhancement in the US. The UrbanSIM-based model will support rapid transit station-area effects modeling, and regional demographic forecasting and fiscal analysis, among many other regional planning and modeling efforts. The successful candidate will have a strong technical orientation and background, including microeconomics, econometrics, statistics and calculus, a basic understanding of regional development issues, and a strong background in computer applications used for analysis and data management. MS/MA in economics, geography, or related field, or equivalent combination of education and experience. Monthly salary range is \$3,404 to \$4,086, depending on experience, plus excellent benefits.

APPLICATION DEADLINE: 5/15/06 To apply you may submit a resume on our

website www.drcog.org under the Employment tab or mail to HR, DRCOG, 4500 Cherry Creek Dr. S., Suite 800, Denver, CO 80246 or fax to 303 480-6768. EOE

NEWSLETTERS

Commercial Property News (VNU Business Media),
<http://www.vnubusinessmedia.com/index.html>

Technology @ Intel Magazine. <http://www.intel.com/technology/magazine/index.htm>

OTHER WEB LINKS

Want to know who's doing what with **wireless**? Applied Wireless: Making Wireless Work in Business, from the editors of CIO magazine offers CIOs more than a basic wireless tutorial. You'll learn how wireless is paying off in the real world for Air Canada, Nordea Bank of Sweden and Beth Israel Deaconess Medical Center, and essential do's and don'ts for successful wireless implementations.

<http://cxolyris.cxomedia.com/t/92005/1848787/799/0/>

http://www.accelacomm.com/jlp/vbbl_cio_051906/10/10006487/

Voltage and plug shapes in any country you're likely to visit:

<http://treehouse.ofb.net/go/de/voltage>

For a more technical treatment, try:

<http://users.pandora.be/worldstandards/electricity.htm>

Why can only "electric" appliances be used with a converter, and not "electronic" ones ?

Differences between what a converter does and what a transformer does...

<http://users.pandora.be/worldstandards/electricity.htm#sinewave>

EDITORIAL

In 2003, a team supervised by Dr. Chen Jin created the "Hanxin," one of China's first homegrown digital signal processors. The achievement led to honors, funding, and a prestigious university position for Chen, who prior to returning to China had earned a Ph.D. in computer engineering at the University of Texas at Austin and worked for Motorola's Austin research center. Chen has now been accused of faking his research and stealing the chip design. He was fired from his university and stripped of his honors.

This close on the heels of a fraud involving stem cell research by a South Korean scientist, Hwang Woo Suk. Both Hwang and Chen had been seen as leading their respective countries' climb up the high-tech value-added chain. Their work was seen as strategically important for their nations, and the scandals hurt all the more for that.

In other scandals, controversy over historical stock options granting practices at many electronics firms has dominated the headlines in recent weeks. *EE Times* has created an archives page containing a collection of stories chronicling unfolding events

related to this issue.

The competition to re-create Silicon Valley in this or that region is an intense one. Dishonesty doesn't help. One scandal of this nature can wipe out the P.R. value of dozens of truly significant advances. RTED's advice? Keep it real, keep it honest, and respect the intellectual property of others. If a potential scandal comes to light, deal with it quickly and transparently. Don't try to keep it secret; there are always leaks, and when it leaks it will cause more damage than a forthright confession would have.

(For the news stories behind this editorial, see <http://newsletter.eetimes.com/cgi-bin4/DM/y/hwpG0GKNt80FrK0EYBw0EB> and David Barboza, "Scandal hurts China in its high-tech push." The New York Times, May 15, 2006.)

TECHNOPOLIS INITIATIVES newly added to the Technopolis Times database

Redwood Tech, **Eureka/Arcata**, California: www.redwoodtech.org

Dr. Carmo D'Cruz writes, "The East **Central Florida** Region (aka the Space Coast) is rapidly becoming a technopolis. Just last week we broke ground for a state of the art incubator - the TRDA Business Incubation Center in Melbourne. Next week, we are presenting a benchmarking paper on some of the leading Technopolis regions of the world at the IEMS conference in Cocoa Beach. There are technopolis-related seminars, workshops, etc. nearly every week conducted at Florida Tech, or the Space Coast EDC, the SBDC, the FNBIC, the TRDA, etc. It really feels like the Austin, Texas of the early 1980s!

"The Space Coast on the East Coast of Central Florida is a fast-growing technopolis region which is part of the burgeoning Central Florida Technopoleis Cluster - comprising the Space Coast to the East, Orlando Technopolis in the Center and the Tampa Bay Technopolis on the West Coast of Florida. These three Technopoleis are led by Florida's leading research universities Florida Tech (in Melbourne), University of Central Florida (in Orlando) and University of South Florida (in Tampa). Unlike the far-flung I-35 Technopoleis Cluster (Dallas/Austin/San Antonio) of the 80s and the 90s - the Central Florida Technopoleis Region is more compact and there already is considerable high-tech and synergy between the educational, industry and the economic development organizations. Additionally we already have the TRDA in Florida."

Ulm, Germany (birthplace of Einstein), www.stadtentwicklungsverband.ulm.de

Denmark, Baltic Sea Initiative, www.bdforum.org

Finland, **Turku** www.turkuregion.fi

Assembly of European Regions shows a beautiful map-based database of regional data, <http://www.a-e-r.org/VICARDS/index.html>

Pas de Calais, <http://www.aditec.org/site/sommaire.htm>

Malta Smart City to be built with investment from Dubai.

http://www.maltamedia.com/news/2005/ln/article_9076.shtml

5,600 jobs are to be created over an eight-year period. The project will include a new ICT and Media Smart City modeled on developments by the same organization in Dubai. A hotel and other activities will attract knowledge-based companies to the site. The government will contribute the land, with Tecom (of Dubai) to invest about US\$300 million over eight years. The government will retain equity in the project.

Open Source Cluster in the Stuttgart region

IT networks are a distinguishing feature of the **Stuttgart** region, which hosts some 150 Open Source businesses (**Baden-Württemberg** has the highest number of Open Source suppliers in Germany). Hewlett-Packard and IBM Deutschland have their German headquarters in the region. (A number of successful Open Source projects, for example, the Linux graphic user-interface – KDE, were initiated by students from this region.) R&D activities in the Open Source movement take place both at the colleges and universities, and in regional industries. The Stuttgart Region Economic Development Corporation created and coordinates the cluster "Open Source Region Stuttgart."

"Energy City is **Qatar**'s Latest Leap Forward."

<http://www.siteselection.com/issues/2006/may/p290/>

The north-east Italian Innovation Relay Centre, known as IRENE, is the gateway to five regions in **Italy**'s industrial heartland. A matchmaker par excellence, IRC/IRENE promotes two-way technology transfer into and out of its client regions. In particular, its services are helping the newly created Emilia-Romagna high-technology network to reach out into Europe. IRC IRENE covers five regions in the north-east of Italy:

Trentino, Friuli Venezia-Giulia, Veneto, Emilia-Romagna and Marche.

<http://www.aster.it/> <http://www.irc-irene.org/> March 2006, *European Innovation*.

Adlershof, a proto-Silicon Valley for nurturing high-tech research and technology in eastern Berlin. <http://www.adlershof.de/index.php?id=352&L=14>

<http://europa.eu.int/comm/dgs/>

Over the last fifteen years, **Flanders** has been creating technology clusters in order to exploit company synergies. From the initial focus on traditional and new industrial sectors, Flanders has moved to high-tech sectors. Clusters have been established in a diversity of technological domains, including multimedia, biotechnology and digital signal processing. IWT, the Institute for the Promotion of Innovation by Science and Technology in Flanders, has played a key role in the implementation of the Flemish cluster strategies. [http://www.innovating-](http://www.innovating-regions.org/network/events/eventDetails.cfm?eve_id=375)

[regions.org/network/events/eventDetails.cfm?eve_id=375](http://www.innovating-regions.org/network/events/eventDetails.cfm?eve_id=375)

The Regional Innovation Strategy project of **Yorkshire and Humber**, launched in the mid- 1990s, laid the ground for the region's cluster strategy. The regional development agency Yorkshire Forward focuses on seven key clusters: advanced engineering and materials, bioscience, chemicals, digital industries, food & drinks, environmental technologies & healthcare technologies. <http://www.innovating->

regions.org/network/events/eventDetails.cfm?eve_id=375

The industrial districts in East **Lombardy** (i.e. provinces of **Mantova, Brescia, Cremona** and **Bergamo**) are characterised by high product specialisation and networks of SMEs that are open to co-operation and exchange of information. The regional authorities, in particular after the launch of RITTS East Lombardy, are establishing active initiatives to foster the production of new technological knowledge and transfer it to firms. In the last few years, five “industrial meta-districts” were created in Lombardy in the fields of food biotechnology, non-food biotechnology, design, new materials, and fashion. The meta-districts, which are not limited territorially and have strong inter-sector integration, spread over more than 100 municipalities, involve some tens of research centres and employ all together about 300,000 people. http://www.innovating-regions.org/network/events/eventDetails.cfm?eve_id=375

Toolmakers Cluster of **Slovenia**. The tool and die industry is traditionally a significant sector in Slovenia. The economic and political transition in the beginning of the 1990s dramatically reduced the domestic market size and called for increased foreign trade. Several projects with the aim of enhancing the sector’s international competitiveness were launched, including the Toolmakers Cluster of Slovenia (TCS). Its objectives include increasing the production volume, accelerating technology transfer in-between companies as well as between enterprises and research institutes, and speeding up the development and implementation of new technologies. TCS currently includes 18 companies, 17 R&D and support institutes and 11 business partners, and runs cooperation projects related to marketing, customer relation management, supply chain management, joint research, and the organisational and IT infrastructure of the cluster itself. http://www.innovating-regions.org/network/events/eventDetails.cfm?eve_id=375

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- * Innovation creates sustainable wealth in metropolitan regions where there is easy interaction among the education, government, business, financial, transportation, telecomm, press, arts & entertainment, nonprofit/NGO, and tourism sectors.
 - * Wealth is enhanced when these metro regions network with each other, especially across national borders.
 - * The keys to success are entrepreneurship; critical-mass clusters in strategic industries; social capital; and civic activism.
- Technopolis Times is here to help aspiring regions succeed.

Technopolis Times’ Mascot

Ted the bear, whose name stands for “Technology and Economic Development.” See Ted’s picture at <http://www.generalinformatics.com/technopolistimes.html>.

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