

Semiconductor Insider

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Industry News (click title to view original source.)

Metal-Assisted Chemical Etching

Researchers at University of Illinois have developed a method which makes it easier to chemically etch patterns in gallium arsenide for high-end optoelectronic devices. Under this method, a thin layer of gold is patterned on top of a wafer with soft lithography. Then the gold catalyzes a chemical reaction that etches the semiconductor from the top down, creating 3D structures for optoelectronic applications.

2012 Brings Challenges for Semicon Industry

2012 promises much for the semiconductor industry and the world. The chip industry will see ramping in second generation 2xnmNAND flash, and Intel's 22nm microprocessors. Each of these technologies presents different challenges to manufacture and yield.

Apple TV Sets to Utilize Custom ARM Chips

The chips for the coming Apple TV are reported to be ARM-based custom chips similar to those released in the iPad in 2010 and in the Apple TV set-top box rather than the Intel chips found in many other Apple products.

Micro Cloud for Classrooms

Marvell Semiconductor announced its Smile plug development kit to create "micro clouds" in classrooms. The kit will allow up to 60 students to connect their laptops, smartphones and tablets to a secure, teacher controlled micro cloud.

Semiconductor, Electronics Industries Receive \$300M

The Department of Budget and Management has released \$300 million to support the semiconductor and electronics industries after they were hit hard by the global trade slowdown last year.

Chip Makers Join DoCoMo in Smartphone Venture

A group of Asian electronics companies are teaming up with Japanese mobile carrier NTT DoCoMo Inc. to develop semiconductors used in smartphones. The venture will work on developing chips that are smaller and more power-efficient.

Improving Electrical Efficiency in Organic Semiconductors

By packing molecules closer together, chemical engineers at Stanford have dramatically improved the electrical conductivity of organic semiconductors. The advance could herald flexible electronics, more efficient solar panels and perhaps even better television screens.

Semiconductors Can Address the World's Energy Crisis

Worldwide demand for electrical energy is increasing and all indications are that it will continue to increase for the foreseeable future. The semiconductor industry can offer two paths of hope for this crisis.

Keep up with [Industry News](http://www.nstargs.com) at www.nstargs.com

News-Safety Total Awareness Report:

What you need to know.

Material Safety Data Sheets

Every workplace should have accessible Material Safety Data Sheets (MSDS) for all hazardous materials that are used or stored. Read the MSDS before you begin using the material. If you have the responsibility for procuring hazardous material, you should obtain an advance copy of the MSDS to review the safety information before the order is placed.

[Click Here to Learn More>>](#)



Employers,

What can NSTAR do for you?

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10 Year Anniversary!

Stay tuned for information on NSTAR's 10 year anniversary! See how we celebrate and remember the past 10 years.



Referral CoNtest WINNERS December 2011

Trung H. Brett J. Josh L.
Brian R. Jacob T.

Congrats, and Thank You!

Refer someone, and be entered into the monthly drawing for a \$50 gift card of your choice!
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FuN Fact: New Year's

How much do you know about ringing in the New Year?

Test your New Year knowledge with this quiz filled with fun facts about various New Year rituals celebrated around the world. [Click here>>](#)

Job Seeker Insight

(click title to view original source.)

Seven Possible Reasons You Have Not Been Hired Yet

If you spent a good portion of this year job searching, but are still underemployed or unemployed, there may be ways you can improve your odds of landing a great job. Here are seven tips that may boost your chances of landing your dream job.

5 LinkedIn Apps for Power Networking

LinkedIn's list of apps is relatively small compared to other popular marketplaces, but what the site lacks in quantity it makes up in quality. Here are five LinkedIn apps to get a leg up in the never-ending networking race.

25 Odd Ball Job Interview Questions from 2011

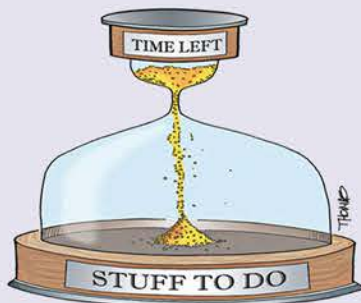
Glassdoor.com recently released its top-25 "oddball questions" from interviewers in 2011. The company picked through more than 150,000 interview questions to come up with some of the wackiest things job candidates were asked in 2011. Check out the top 25 questions.

Find More Job Seeker Tips at www.nstargs.com

Ntertainment:

Enjoy these cartoons describing 16 common New Year's Resolutions.

[Click here>>](#)



Resolution #1: Learn to manage your time better.

Other News of Nterest (click title to view original.)

Solar Powered Kindle Cover

SolarFocus will introduce a new solar powered e-reader cover just for Amazon's Kindle. It is built right into the cover, is light weight and flexible, charges the reserve battery for the LED reading light, and also provides extra power to the Kindle.

FDA Approves Germ-Killing Keyboard

The FDA has cleared the Vioguard self-sanitizing computer keyboard for use in hospitals and clinics. The keyboard is designed to automatically retract into an enclosed monitor stand to be bathed in ultraviolet light after each use.

Trina Solar Establishes International School in China

Trina Solar announced the establishment of the Changzhou Trina International School as part of its 2012 CSR strategy. The school's establishment will offer Trina Solar a strategic competitive advantage in attracting and retaining first class solar industry management and R&D talent.

GE Receives \$1.36 Million to Study Electric Vehicles

GE Global Research in Niskayuna, New York, has received a \$1.36 million federal grant to improve the efficiency of electric cars. The grant will also be used to create a fleet of smart-grid vehicles for the shipping and municipal maintenance industries.

Keep up with more news at www.nstargs.com

Featured Jobs:

We have over 100 openings right now! Here are just a few. [See more on our website>>](#)

Click titles for full details.

[Resource Engineer – Novellus Sabre](#)
2-4 months, Europe – Job # 2181

[Resource Engineer – Etch or Clean Track](#)
1 year, Austin, TX – Job # 2162

[Resource Engineer – Implant](#)
1 year, Phoenix, AZ – Job # 2183

[Process Engineer – Lam 2300](#)
3+ months, North East USA – Job # 2184

[Resource Engineer – Novellus Inova](#)
Long-term, North East USA – Job # 1939

[Resource Engineer – AMAT EPI](#)
Various projects throughout the USA – Job #1930

[All Openings>>](#) [Job Seeker Services>>](#)

ChaNGes (click title to view original.)

Soitec to Acquire Altatech

Soitec has announced a letter of intent for the acquisition of all of the outstanding shares composing the capital of Altatech Semiconductor.

Action Products Acquires Core Wafer

Action Products International, Inc. has acquired Core Wafer Systems, who offers proprietary solutions for testing and data mining of hard drives, memory, magnetics and other advanced semiconductor and nanotechnology devices.

AIP Sells Brooks and Ichor

American Industrial Partners (AIP) has announced the sale of Brooks Instrument and Ichor Systems. The terms of both transactions have not been disclosed.

Keep up with more news at www.nstargs.com

NSTAR AdveNtures

I've had a very good experience with NSTAR. I've been very satisfied with the customer service department. They respond right way even though there is a 12 hour time difference.

-Fred T.



Dresden, Germany

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