

ADVERTISEMENT

Family Owned, Customer Driven.

Click Here to View Our Inventory

LINCOLN



SN www.azstarnet.com™ THE ONLINE SERVICE OF THE ARIZONA DAILY STAR

tucson weather:

View Forecast

Hear KGUN9 Forecast

LIVE Tucson TRAFFIC Cams



Text Size: S M L

HOME · ENTERTAINMENT · HEALTH · FEATURES · BUSINESS · EVENT CALENDAR · SPORTS · UA SPORTS · SITEMAP

subscribe to the Arizona Daily Star · manage your Star subscription · classifieds · jobs · autos · real estate · obituaries

MORE FROM tucson.com POWERED BY TUCSON'S NEWSPAPERS

FEATURED ADVERTISEMENTS

Marketplace

apartments.com Find a place Moving

cars.com Find a car Sell a car

careerbuilder Find a job Fill a job

Tucson Classified Stuff Place an ad

shopLocal Coupons On sale Ads

eHarmony Dating Personality profile

tucsonhomes New Resale

Advertiser Marketplace

- ABYGAIL'S FINE BAKERY & CAFE
ALLIED FINANCIAL SERVICES, INC.
ALLIED GLASS SERVICES
ALLIED HOME MORTGAGE CAPITAL CORPORATION
ANDY COURTNEY PROPERTIES
ARIZONA GOLF ACADEMY
ARIZONA THEATRE COMPANY
AZ-TEC COATINGS
BETTER BODIES
BOTOX OFTALMOLOGO Y ASOCIADOS
BRIDGE CAPITAL CORPORATION
BUDGET

Tucson, Arizona | Published: 06.12.2003

« back

Optics firms, UA look to biotech

Bio File

By David Wichner and Inger Sandal ARIZONA DAILY STAR

Local optics firms are looking to collaborate with University of Arizona researchers on developing optical products for the biotechnology industries after a



We are a state sponsored, member funded Got Health Insurance? plan for the self-employed and small businesses.



(Flashing = current amber alert)

Click to sign up for alerts now

REAL Cities Visit other RealCities sites

Special Content:

- LIVE! Traffic Cams
Coexistence
StarNet Store
StarNet Travel Deals
Fantasy Sports
Sports and Event Tickets
Salary & Cost of living calculators



Download PDF

- All Headlines
Mobile Edition
Front Page
Tucson Region
Neighbors
Arizona / West
Nation
Washington
World
Sports

- [Opinion](#)
- [Business](#)
- [Accent](#)

**WEEKLY SECTIONS:**

- [Food](#)
- [Northwest](#)
- [Caliente](#)
- [Home](#)
- [Travel](#)



**SEARCH:**

7 day

Star Archive

Classifieds

ProQuest subscribers use this [link](#)

**SPECIAL SECTIONS:**

- [America at War](#)
- [Border news](#)
- [Destinations](#)
- [Earth 911](#)
- [Education](#)
- [Politics](#)
- [110 Degrees](#)

meeting last week.

Biomedical

researchers from the

UA, optics officials

and biotech business developers who met at a "bio-optics round table" hosted by Breault Research Organization last week said optics is playing an increasingly vital role in biotech.

John Koshel, manager of optical engineering services for Breault, said the firm is working on technologies that may be applicable to biotech research.

Based on Breault's light-analysis technology, devices used to measure light might be used to identify biological agents, Koshel said.

Among the biotech areas under study at Breault, he said, are an optical means of glucose measurement; illumination and imaging for surgical instruments; and light-source modeling for biophotonics, or the study of the interaction between biological materials and light.

Several UA researchers said optics is emerging as a major component of biotech research.

Stuart Williams, a UA professor who, as chairman of the university's biomedical engineering program, coordinates biotech research across several colleges, cited current research on neural engineering, diagnostic and regenerative medicine, biomaterials, biosensors, bioimaging and biomechanical devices for diagnostics and rehabilitation.

"This is a huge area," Williams said of biomechanical devices. "We

• [Email this Story](#)

• [Printer friendly version](#)

• [Write a letter to the Editor](#)

• [Newspapers In Education](#)

**StarNet news partners:**

- tucson.com
- Arizona Daily Star
- azhighschoolsports.com
- aznightbuzz.com
- pac10fanatic.com
- kvoa.com
- KGUN 9.COM
- FOXTIAZ.com
- azfamily.com
- M 5 NBC
- YU100!
- EL IMPARCIAL.COM

**Advertisements:**



- BUDGET BLINDS WEST
- BURR
- CASA SANCHEZ
- CHILO'S
- CIRUGIA DE CATARATA
- CLAIRE JEAN PRAGER - COLDWELL BANKER SUCCESS SOUTHWEST
- COIT
- COLDWELL BANKER SUCCESS SOUTHWEST
- COLORTILE
- COPENHAGEN BUSINESS INTERIORS
- COYOTE CREEK
- DIRECT PAGING/CELLULAR & SATELLITE
- EDUCAMEXUS
- EI GUERO CANELO
- ESPECIALIZAMOS NADA M'AS EN TI
- GAIL LAROCCA - COLDWELL BANKER SUCCESS SOUTHWEST
- GLAMOROUS
- GOLD COAST MORTGAGE GROUP
- HANDYMAN CONNECTION
- HIDDEN VALLEY INN RESTAURANT & SALOON
- HOTCHKISS FINANCIAL, INC.
- HUGHES FEDERAL CREDIT UNION
- INN SUITES HOTELS & SUITES
- J.C. ROSE DENTAL CENTER
- JEWELL'S FINE ART FESTIVALS
- JOAN CARUSO - COLDWELL BANKER SUCCESS SOUTHWEST
- KARIMI ORIENTAL RUGS
- KARLIN FRANKLUND - COLDWELL BANKER SUCCESS SOUTHWEST
- KB HOME
- L.A. SPAS
- LA JOLLA DIAMONDS &

- [Local columnists](#)
- [Mapping the news](#)
- [Midwest](#)
- [Pets](#)
- [Pets 911](#)
- [Crime](#)
- [Star 200](#)
- [Tech news](#)
- [Transportation](#)
- [UA Sports](#)
- [Varsity sports](#)
- [Weird News](#)
- [Wildfires](#)

#### STARNET HELP:

- [Contact Us](#)
- [Subscribe](#)

#### STARNET SERVICES:

- [Make StarNet My Homepage](#)
- [Get our daily newsletter](#)
- [Movie Times](#)
- [SN Community](#)
- [Bulletin Boards](#)
- [Newspapers in Education](#)
- [ethepeople](#)
- [Legal Resource Center](#)
- [Weather](#)
- [Homes sold](#)

can build, into very, very small systems, optical diagnostic devices."

Williams and other round-table participants said it was a good start for more collaboration between the area's optics and biotech industry clusters.

Breault CEO Kathleen Perkins said the company plans to develop custom image-processing software as part of its ASAP light-analysis program.

"There's a real significant need in the bio industry for better protocol and automation and standardizing of image processing and transfer," she said.

Michael Stevenson, Breault market researcher and author of OpticsReport, said other areas of collaboration include image enhancement software to help researchers and doctors identify cancerous tumors through blood-flow analysis.

Image-interpretation software is "just the data bridge that researchers need to get their technologies out of the lab and into clinical settings," Stevenson said, adding that researchers are increasingly thinking in terms of developing commercial products.

A doctor who works with a local optics firm said medical optics technologies are quickly moving beyond diagnostics to advanced therapeutic tools.

"They're talking about going deep inside the body with these bio-optics machines," said Dr. Larry Marsteller, a UA-educated physician and director of medical products for CDEX Inc. in Tucson.

**cars.com**

**It's a ticket to ride.**

**Over 2,300 vehicles.**

Click on autos on [tucson.com](http://tucson.com)

**tucson.com**

#### GEMS

- LYNN KLLNE - KLINE REALTY
- MARIA'S GOLD
- MARK GALLEGOS - COLDWELL BANKER SUCCESS SOUTHWEST
- MARRONEY THEATRE
- MARY ANN LEVENSON - LONG REALTY COMPANY
- MEDTECH MAMMOGRAPHY CENTERS & WOMEN'S IMAGING
- NANCY SNOW - COLDWELL BANKER SUCCESS SOUTHWEST
- NOVA HOME LOANS
- OSCAR RAMIREZ - LONG REALTY COMPANY
- PALA VERDE REAL ESTATE LLC
- PEPPER VINER HOMES
- PERSONAL ADVERTISER
- PERSONAL ADVERTISER
- PETLAND
- PIMA COUNTY ATTORNEY'S OFFICE
- ROSEQUIST GALLERIES & CUSTOM PICTURE
- SARAH FRESE - COLDWELL BANKER SUCCESS SOUTHWEST
- SEARS CARPET AND UPHOLSTERY CLEANING
- SOLATUBE
- STEVE MCGARRIGLE - COLDWELL BANKER SUCCESS SOUTHWEST
- STOOL & DINETTE FACTORY
- STRATEGIC ADVISORS GROUP
- SUN LIGHTING
- TEDDY'S DOG HOUSE
- TER-MARK GUN SHOW
- THE CARPET STORE
- THE ECLECTIC CAFE
- THE MAX GALLERY
- THE PROVIDENCE INSTITUTE

- [Market Browser](#)
- [Headlines for your site or weblog](#)
- [Southern Arizona Community Profiles](#)

### STOCK QUOTES

Search by ticker symbol, abbreviation from a newspaper or company name.

Stock Quote

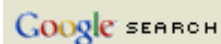


Business Name:

OR Category:

Enter City:

State:



CDEX, based in Rockville, Md., is developing X-ray and ultraviolet explosives-detection systems for military and homeland-defense applications and an optical pill-identification system.

The company's principal scientist, former UA Steward Observatory researcher Wade Poteet, said he hopes to collaborate with UA scientists on new biological detection technologies.

Sundt building at ASU

Tucson-based Sundt Construction Inc. will team up with a California firm to construct the 172,000-square-foot building that will house the Arizona Biodesign Institute at Arizona State University.

Sundt has formed a joint venture with DPR Construction Inc., based in Redwood City, to build the \$69 million center on ASU's main campus in Tempe.

Groundbreaking took place in April, and occupancy is planned for fall 2004. The architects are Gould Evans Affiliates and Lord Aeck & Sargent Inc.

Contact reporter David Wichner at 573-4181 or [wichner@azstarnet.com](mailto:wichner@azstarnet.com).

[« back](#)

- [Email this Story](#) |
- [Printer friendly version](#) |
- [Write a letter to the Editor](#)

[Subscribe to the Arizona Daily Star](#)

- [News](#) · [Sports](#) · [Entertainment](#) · [Health](#) · [Travel](#) · [Features](#) · [Tech](#) · [Business](#) · [Classifieds](#) · [Funeral Notices](#)

[StarNet's privacy policy](#)

Featured content:



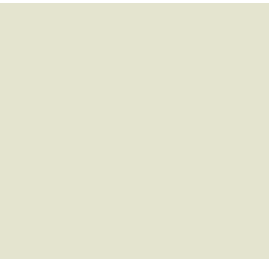
- THE UNIVERSITY OF ARIZONA
- THE UNIVERSITY OF ARIZONA HEALTH SCIENCES CENTER
- THE WESTIN LA PALOMA RESORT & SPA
- THRIFT STORE
- TIME WARNER TELECOM
- TOBACCO BARN
- UA PRESENTS
- WEST REALTY
- WILLIAM A. PENN - COLDWELL BANKER SUCCESS SOUTHWEST
- YETIVE LAURIE - COLDWELL BANKER SUCCESS SOUTHWEST
- YO MA SOLUTIONS
- YOSI'S CREATIONS FLOWER SHOP

MORE LINKS:



A Pulitzer newspaper

- [STLtoday, St. Louis](#)
- [Arizona Daily Sun, Flagstaff](#)



**All content copyright © 1999-2005 AzStarNet, Arizona Daily Star and its wire services and suppliers and may not be republished without permission. All rights reserved. Any copying, redistribution, or retransmission of any of the contents of this service without the expressed written consent of Arizona Daily Star or AzStarNet is prohibited.**

