

3D Molecular Designs & MSOE Center for BioMolecular Modeling #226

1025 N. Broadway, Milwaukee WI 53202

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Email: heather_ryan@antiochsea.edu

Web: www.3dmoleculardesigns.com

Provide innovative molecular models and professional development opportunities for educators in the biosciences. 3DMD uses rapid prototyping technologies to design molecular models based on atomic coordinates. Through its professional development programs, the CBM involves educators in the design and construction of physical models for use in teaching. 3DMD sells magnetic water and DNA kits, protein modeling toolbars, and protein models.

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CCD detector x-ray system for protein crystallography applications.

ART ROBBINS INSTRUMENTS #101

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Automated Micro/Nano Dispenser for 96 well crystallography plates. Also showing 96 well intelliplates.

BEEVERS MINIATURE MODELS #123

West Mains Road, Department of Chemistry

University of Edinburgh, Edinburgh, EH9 3JJ

Scotland

Tel: 44-131-650-4824 Fax: 44-131-650-4824

Email: bmmu@ed.ac.uk

Web: www.bmmu.demon.co.uk

Beevers Miniature Models are ball-and-stick models depicting atomic arrangements in crystalline materials. They are made on the scale of 1cm = 1Å with acrylic balls individually drilled to precise angles and stainless steel rods cut to give exact lengths. Our selection of balls contains 20 colour choices and the models are eye-catching and informative. Our accurate and compact models range across the spectrum of 3-dimensional structures - Chemistry, Biology, Geology, Physics and Mathematics. We specialize in models made to your own requirements - faces, dislocations, epitaxial surfaces. For your model, large or small, we only need the crystallographic or other structural parameters.

BIOPHYSICS COLLABORATIVE ACCESS TEAM (BioCAT) #319

Argonne National Laboratory

BioCAT/APS, Sector 18, Bldg. 435B

9700 S. Cass Ave, Argonne IL 60439

Tel: 630-252-0549 Fax: 630-252-0545

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Web: www.bio.aps.anl.gov

The Biophysics Collaborative Access Team (BioCAT) operates a NIH supported Biotechnology Research Resource for the study of the structure and dynamics of non-crystalline biological materials at the Advanced Photon Source, Argonne, IL. The goal of such research is to determine the detailed mechanism of action of biological systems at the molecular level. The techniques employed are static, time and spatially resolved x-ray diffraction, x-ray scattering and x-ray absorption/emission spectroscopy. Projects are invited from all scientists who can benefit from our advanced capabilities.

BLAKE INDUSTRIES # 116

660 Jerusalem Road, Scotch Plains NJ 07076

Tel: 908-233-7240 Fax: 908-233-1354

Email: blake4xray@worldnet.att.net

Web:

Blake Industries will be exhibiting Huber and Blake instruments and accessories for x-ray diffraction and crystallography with sealed tube, rotating anode or synchrotron sources.

BRANDEL # 307

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Tel: 800-948-6506 Fax: 301-869-5570

Email: sales@brandel.com

Web: www.brandel.com

Will be exhibiting their pressure-based Plate Sealing Systems for applying a uniform siliconized or adhesive seal for most any plate configuration, height and composition. Systems can be used with a variety of sealing tapes, including transparent, translucent, foils and gas permeable. Tapes are available for use with most chemicals (Including DMSO) and capable of withstanding temperatures as low as -70°C. Automated systems are an ideal component for integration into liquid handling/robotic systems. Models with plate stackers are available.

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Provides advanced X-ray solutions in life sciences, chemical and materials science. Latest APEX II small molecule CCD systems feature highest sensitivity for all types of crystalline samples, including micro crystals and weak diffractors, and handle advanced research problems with twins, strong absorbers, charge density studies, modulated structures and diffuse scattering. Biological macromolecule systems feature Crystal Farm® growth plate imaging, sensitive, large area PROTEUM CCDs and high brilliance MICROSTAR generators for high-resolution data and high-throughput screening at home. Synchrotron CCDs feature fast readout and various sizes. Systems for combinatorial screening and SAXS highlight 2D fast readout, low noise detectors.

CAMBRIDGE CRYSTALLOGRAPHIC DATA CENTRE #321,323

CCDC, 12 Union Road, Cambridge CB2 1EZ

United Kingdom

Tel: 44-1223-336408 Fax: 44-1223-336033

Email: battle@ccdc.cam.ac.uk

Web: www.ccdc.cam.ac.uk

The CCDC collates and distributes the Cambridge Structural Database (CSD) which contains comprehensive crystal structure data for over 300,000 small organic and metal-organic compounds. The CSD System comprises the database itself, accompanying search and analysis software and includes the structural knowledge bases Mogul (for rapid retrieval of molecular geometry from the CSD) and IsoStar (a knowledge base of intermolecular interactions). The CCDC also undertakes the development of a range of applications software - GOLD (protein-ligand docking), Relibase+ (search and analysis of protein-

ligand complexes), SuperStar (prediction of protein-ligand interactions) and DASH (crystal structure solution from powder diffraction data).

CCP4 #327

Daresbury Laboratory

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United Kingdom

Tel: 44-1925-603929 Fax: 44-1925-603825

Email: m.e.howard-eales@ccp4.ac.uk

Web: www.ccp4.ac.uk

The Collaborative Computational Project No. 4 (CCP4) provides a software suite for macromolecular structure determination by X-ray crystallography used by academic institutions and commercial organizations around the world. Income from the project supports maintenance, distribution and development of the software, and funds additional activities including sponsorship of educational workshops, an annual Study Weekend, hosting e-mail discussion lists, and producing a bi-annual newsletter. CCP4 staff will be available to discuss any aspect of the project, including the latest release (5.0), the CCP4 molecular graphics program, the graphical user interface (CCP4i), and the data processing package MOSFLM.

CORNING INCORPORATED #127

45 Nagog Park, Acton, MA 01720

Tel: 978-635-2200 Fax: 978-635-2476

Email: clswebmail@corning.com

Web Site: www.corning.com/lifesciences

Corning Incorporated is a diversified technology company, manufacturing high-quality, high performance consumables for the life science market. With expertise in surface chemistry, injection molding and material science, Corning offers plastic products to service the field of cell culture, liquid handling, filtration, genomics, and high throughput screening. Corning will be highlighting its 96 and 384 well protein crystallization plates

CRYO INDUSTRIES OF AMERICA # 216

11124 S. Willow Street, Manchester NH 03103

Tel: 603-621-9957 Fax: 603-621-9960

Email: cryo@cryoindustries.com

Web: www.cryoindustries.com

CRYO Industries has a complete (CRYOCOOL) range of Gas Stream Coolers, LHe, LN₂, and Cryogen Free versions for Helium and Nitrogen. The CRYOCOOL can maintain the crystal as low as 4.5K or as high as 500K. Our Single Stream design means low gas consumption, minimizes turbulence, provides a laminar flow region in excess of 10mm, and is easy to use.

deCODE biostructures

#223

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Email: csterling@decode.com

Web: www.decode.com

The Emerald Biostructures products from deCODE biostructures provide structural solutions for biotechnology. The Emerald Screens provide the crystallographer cutting edge tools to do their science. With our complete RoboHTC platform, automating traditional bottlenecks, labs can increase reproducibility and throughput.

DELONG AMERICA INC. # 125

5775 Victoria, Suite 224, Montreal Quebec H3W 2R4

Canada

Tel: 514-904-1202 Fax: 763-374-0242

Email: info@lv-em.com

Web: www.lv-em.com

The LVEM5 microscope accelerates and improves quality assessment of membrane protein sample preparations. Protein crystallographers benefit by directly observing preparation homogeneity and aggregation states by high resolution electron microscopy. The LVEM5 marks a radical departure from traditional electron microscopes in its desktop size, affordable cost and ease of operations. The LVEM5 also has an important functional edge over traditional electron microscopy as no staining is necessary. This translates into the absence of damaging acid pH heavy metals that destabilize sensitive preparations. Employing the LVEM5 as a key quality step prior to crystallization trials reduces time, costs and errors.

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Email: tgeste@dsitech.com

Web: www.dsitech.com

DSI offers advanced protein crystallization tools for experiment design, image capture, image analysis, and experiment optimization. Patented CrystalScore™ provides automatic image acquisition, analysis, and archiving of crystallization experiments. CrystalScore™ is cold room compatible. Configurations include upright, inverted, single plate, and six plate systems. CrystalScore™ works with all commercial plate types. ScreenPro™ provides for the design and creation of initial and optimization screens including incomplete factorial, grid, and disparate screens. Patent pending ScreenPro™ works seamlessly with CrystalScore™ and other manufacturers imaging systems. With ScreenPro™, you can easily design and build grid screens around "hits" or create a neural network determined optimization screen.

DOUGLAS INSTRUMENTS #313

Westfield Farm

East Garston

Berkshire RG177HD

United Kingdom

Tel: 44-1488-649090 Fax: 44-1488-648975

Email: anne-marie@douglas.co.uk

Web: www.douglas.co.uk

Designs and manufactures the IMPAX 1-5 and Oryx 1-6 systems for automatic protein crystallization. Both systems are mainly designed to carry out crystallization by the microbatch method, although Oryx 1-6 can also perform crystallization by vapor diffusion. Microbatch has many advantages including greater speed – and also the fact that it is truly micro – and consequently uses less protein. Recent studies have shown that microbatch finds a comparable or (in one case) a much greater number of hits than vapor diffusion in screening experiments. The company also makes miniaturized plates especially for crystallization by both vapor diffusion and microbatch.

FLUIDIGM CORPORATION #122, 124

7100 Shoreline Ct, So San Francisco, CA 94080

Tel: 650-266-6000 Fax: 650-871-7152

Email: topaz@fluidigm.com

Web: www.fluidigm.com

Fluidigm develops and manufactures innovative systems based on unique integrated fluidic circuits (IFCs) for life-science research. IFCs for protein crystallization are an integral part of the TOPAZ(tm) System-the first screen-to-beam solution for high-throughput crystallization using free interface diffusion (FID). The system's combination of hardware, software, and chips provides automatic setup of crystallization experiments, imaging and classification of the results of the experiments, and scale up, providing a straightforward means of growing crystals of sufficient size and quality for diffraction studies.

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Waltham, MA 02451
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Web: www.formulatrix.com

Formulatrix provides a complete end to end hardware and software solution for automating protein crystallography. Our flagship product, Rock Maker, is a multi-user, easy to use software solution that automates and tracks the entire protein crystallization process including experiment design, liquid dispensing, plate storage and retrieval, and imaging. Come check out Rock Imager 24, our new ultra-high quality automated imaging system at ACA. Please visit us at www.formulatrix.com to find out why leading pharmaceutical and biotech companies are using our solution.

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Automated Honeybee Protein Crystallization System: Honeybee systems are designed with components to support protein crystallization experiments. Proprietary synQUAD allows fast, non contact dispense of both mother liquor and proteins. Dispense "on the fly" or in "step and repeat mode". Honeybee Systems are designed to support Microbatch, Sitting Drop, Hanging Drop, and Combinatorial Dispense applications. Hummingbird Systems provide fast, highly parallel non contact dispensing and transfer of compounds. The proprietary Hummingbird involves sipping of sample from a source plate using narrow-bore glass capillaries. Transfer occurs by aspirating sample using capillary action followed by dispensing with a pulse of air. Hummingbird cassettes hold 96 or 384 capillaries in a format to fit standard plates
Cartesian Pipettor: The Cartesian Pipettor provides non Contact dispense via air displacement technology. Transfer up to 550 uL from a deep well plate to crystal plates with a simple GUI interface.

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A leading manufacturer of protein crystallography instrumentation for the pharmaceutical and biotechnology industries. With Gilson innovations, the process of preparing crystals is faster and easier than ever before. Gilson's 925 PC Workstation automates the preparation of protein crystallography experiments in minutes and is designed for high-throughput screening for hanging, sitting, and microbatch crystallography. This versatile workstation accepts many types of crystallography plates, including Greiner™, Neuro Probe™, Corning™, and Intelli-Plate. Gilson's range of systems work with 96- or standard 24-well formats, providing the ideal instruments to fit a variety of needs. Flexibility, reliability, and performance make these workstations invaluable tools for creating diffraction-quality crystals.

GREINER BIO-ONE, INC. # 102

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Introducing the 1536 well Imp@ct™ Plate to facilitate high-throughput, small volume microbatch crystallography, optimizing crystal growth investigations and X-ray diffraction analyses with reduced time and cost. CrystalQuick™ microplates with CrystalDrop™ lids expand a 96 well platform to allow simultaneous sitting and hanging drop vapor diffusions. Select from a variety of well styles to enhance crystal screening. Universal 24 well ComboPlate™ accommodates 18 mm cover slips for hanging drops and individual well sealing. CrystalBridges™ enable sitting drop applications within each well.

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HP delivers innovative, standards-based solutions running Linux and Microsoft Windows® including Intel® and AMD Opteron™ servers, an adaptive StorageWorks infrastructure accommodating multiple terabytes of data, 3D stereo-capable graphics workstations, and services. And by working with crystallographic software developers, HP provides a robust and well-tested environment for crystallographic computing.

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Innovadyne Technologies is a privately held, rapidly growing fluidics-technology company that manufactures and sells enabling non-contact, low-volume liquid transfer solutions to end users and leading lab automation companies. Determination of protein structure can greatly reduce the number of HTS screens required by focusing compound libraries. Protein crystallization techniques are a method of choice for determining protein structures. Innovadyne's non-contact dispense platforms provide an excellent "fit" for the low volume dispense and fast cycle time requirements of high-throughput protein crystallography. We offer products that range from single-channel, protein dispensers to 96+8-channel units designed for both coarse and fine screen liquid handling.

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The IUCr is delighted to announce the imminent arrival of Acta Crystallographica Section F: Structural Biology and Crystallization Communications, an all-electronic journal for the rapid publication of structural genomics, protein structure and crystallization results. Visit the IUCr stand to find out more.

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Manufacturer of Particle Characterization Systems including laser diffraction particle size analyzers for powders, sprays and suspensions, compact goniometer systems, in-process particle size analyzer addresses the FDA's PAT initiative, particle shape using automated imaging techniques. On display, the new Zetasizer Nano that combines the measurement of particle size, zeta potential and molecular weight of molecules and nano-sized particles such as proteins. With the first zero maintenance cell for zeta potential it can measure particle size of samples with volumes of 12 μ L, and particle sizes below 1 nm diameter.

MAR USA, INC. # 320

1880 Oak Avenue

Evanston IL 60201

Tel: 847-869-1548 Fax: 847-869-1587

Email: info@mar-usa.com

Web: www.mar-usa.com

Mar USA develops, manufactures, and markets imaging detector systems for X-ray diffraction applications: the Mar345 Imaging Plate system, the 165 mm diameter Marccd, and three Marmosaic ccd-based detectors (225, 300, and 325 mm). These systems have set the standard at synchrotrons for high performance - highest data quality, high speed, ease of use and ultra reliability. The highly automated Mardtb goniostat is now available with the Marcsc accessory. This cryogenic sample changer automatically mounts and safely retrieves samples under computer control. The combination of a Marmosaic detector and Mardtb goniostat with the cryogenic sample changer provides a reliable and remarkably affordable synchrotron end station for protein crystallography. A Mar345 scanner or Marccd, combined with the Mardtb and Marcsc, is the ideal complimentary screening station for the home lab.

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MicroCal manufactures ultrasensitive VP-Isothermal Titration and Differential Scanning Calorimeters which are capable of rapidly characterizing binding and structural properties of biomolecules in highly automated, easy-to-perform experiments. The VP series represents major advances in sensitivity, reproducibility and stability, which translates into smaller sample requirements and greater precision.

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Web: www.moleculardimensions.com

Supplies innovative protein crystal growth screens developed within our customers' laboratories as well as plates cover slides, and protein expression media including SeMet. Molecular Dimensions sells the only cooled incubators specifically designed for crystal growth. With " 0.5° C accuracy from 0 - 50° C these incubators operate virtually vibration free. Now a new bench top, stackable model is available to compliment the popular 6.36, 8.83 & 13.77 cubic foot range. At ACA 2004 Molecular Dimensions will exhibit mosquito the ideal liquid handling tool for setting up protein crystallization drops in high throughput screening plates.

NEXTAL BIOTECHNOLOGIES #309

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Montreal Quebec H3K 1G6

Canada

Tel: 514-849-8057 Fax: 514-849-4588

Email: rmndiaye@nextalbiotech.com

Web: www.nextalbiotech.com

Nextal develops products specifically designed for protein crystallization. You now have access to our exclusive Ready-to-use formats, 24 wells Crystallization Tool or 96 wells microplate. Our certified crystallization conditions are also available in Deep Well Blocks or 10ml tubes format for high volume users. You are in control! With any choice you make, Nextal is there to support you with the widest variety of solutions, formats and now optimization strategy. Come and see us to learn more about our NEW Optimizer Series, a FAST, SIMPLE and EASY way to widen you optimization depth and results!

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1900 Taylor Road

Auburn Hills MI 48326

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Come see what's new from the pioneer and leading developer of multilayer x-ray optic technology. Osmic offers a full line of standard and custom design products, from optics to source-optic beam modules, designed for single-crystal, small angle x-ray scattering, x-ray reflectivity, x-ray diffraction, wavelength dispersive spectroscopy, micro x-ray diffraction, micro x-ray fluorescence, and more x-ray analytical techniques. Our latest and patented VariMax™ line of optics offer the highest flux, a well defined beam (both spatially and spectrally), and adjustable divergence for unmatched data quality and excellent resolution capabilities for protein crystallography. Integrated micro-focusing source and specially designed multilayer optic beam modules offer rotating anode like performance and are the ultimate in sealed tube x-ray source technology. Our expert staff and application driven approach to product development enable us to provide the best optics and instrumentation for a broad spectrum of x-ray analytical techniques

OXFORD CRYOSYSTEMS #112

7 Jackson Road

Devens MA 01432

Tel: 978-772-7930 Fax: 978-772-7945

Email: liz@oxfordcryosystems.com

Web: www.oxfordcryosystems.com

Oxford Cryosystems started manufacturing the original Cryostream Cooler in 1985 but still leads the field in cryostat design. This year we are launching the Cobra - our new NON-LIQUID Cryostream with a temperature range of 80-500 K and a fast cooldown time of 30 minutes. The Cobra will compliment our Cryostream range including the 700 series & the Cryostream Plus. The company also produces the HeliX, an open flow helium cryostat and the Phenix, a revolutionary 11K helium cryostat for powder diffraction. Other products include the Metripol, a birefringence imaging system, Cryoaccessories and a software suite, Crystallographica, incorporating Crystallographica Search Match (CSM), both of which can be downloaded for free trial periods at www.crystallographica.com

OXFORD DIFFRACTION #100

130 A Baker Avenue Extension

Concord MA 01754

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Email: info@oxford-diffraction.com

Web: www.oxford-diffraction.com

Designs and manufactures chemical and protein single crystal X-ray diffraction equipment. Our superior products include the newly launched 'Xcalibur 3' featuring the direct taper 'Sapphire 3' CCD detector, the revolutionary protein diffractometer 'Xcalibur PX Ultra' and the patented 'Helijet' open flow helium jet. 'Xcalibur PX Ultra' features a four circle kappa goniometer, the revolutionary 'Enhance Ultra' X-ray source; which provides comparable X-ray intensity to a 5 kW rotating anode fitted with multi-graded Confocal optics from a 2.2 kW sealed tube and the patented 165 mm large area 'Onyx' CCD detector.

PRECISION DETECTORS #206

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Dynamic light scattering for protein purity.

RCSB PROTEIN DATA BANK #325

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610 Taylor Road
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Tel: 732-445-0103 Fax: 732-445-4320
Email: info@rcsb.org
Web: www.pdb.org

The Protein Data Bank is the single worldwide repository for the processing and distribution of 3-D biological macromolecular structure data.

RHOMBIX, KENDRO, DATACENTRIC AUTOMATION AND HAMILTON CORP #213

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Email: dave.riling@kendro.spx.com
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DataCentric Automation is a solution-based provider of laboratory automation and informatics. Our Rhombix Series of products provide proven automation solutions for protein crystallography experiment definition, plate preparation, storage and imaging, tightly integrated with a database that can be queried for experiment optimization and refinement. Using robotics and intelligent automation techniques, driven around a core database – the data-centric paradigm - enables disparate instrumentation to work cohesively, adapt to process changes, and use data more effectively. DataCentric Automation was recently acquired by Kendro Laboratory Products. Adding Kendro's solutions to the Rhombix Series further expands our ability to provide complete solutions for lab automation on a global basis.

RIGAKU #204

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Redefining the home lab as the world's leading resource for single-crystal X-ray diffraction hardware, software and contract services. Rigaku/MSC offers fully integrated small and macromolecule applications, Rigaku generators, X-ray optical systems, cryo-cooling devices and peripheral devices. In addition, Rigaku/MSC provides small and macromolecular structure determination services on a contract basis.

ROBODESIGN INTERNATIONAL #204

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Carlsbad CA 92008
Tel: 760-438-5282 Fax: 760-438-5286
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Web: www.robodesign.com

RoboDesign International, Inc. offers several new products this year with its CrystalMation™ product line. The first is a fully integrated and automated 1,000 plate high-throughput crystallization platform, including screen making, protein dispense modules, plate handling, incubation, and inspection with automated scoring, data mining, and optimization software. The second is our modular high-speed 2,500 - 10,000 plate crystallization storage, retrieval and inspection system for use in cold rooms. The third, for smaller

labs, is the Minstrel I™, with options for fully automated plate handling, storage and inspection of 60 - 80 plates. Of course, "Sweet Image™" image-enhancement software is available for all RoboDesign systems.

SHAMROCK STRUCTURES LLC #301

1440 Davey Road

Woodridge IL 60517

Tel: 630-739-3215 Fax: 630-739-1753

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Web: www.shamrockstructures.com

Shamrock Structures is a structural proteomics company that provides integrated proteomics services and rapid access to x-ray synchrotron data collection to solve three dimensional structures of proteins and protein complexes enabling structure-based drug discovery. Utilizing superior technologies and scientific expertise in the field of proteomics, Shamrock Structures allows for the design and synthesis of increasingly more active and selective new drug leads.

SOUTHEAST REGIONAL COLLABORATIVE ACCESS TEAM (SER-CAT) #326

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The Southeast Regional Collaborative Access Team (SER-CAT) was formed in 1997 by 22 participating institutions to provide third generation X-ray capabilities to macromolecular crystallographers and structural biologists in the Southeast and Midwest. Its facilities, which are nearly complete, are located at Sector 22 of the Advanced Photon Source of the Argonne National Laboratory and consist of both an ID and a BM beamline. SER-CAT's primary interest is serving its membership with the most advanced data collection facilities for macromolecular crystallography. Membership information is available at www.ser-cat.org.

SPRINGER #324

101 Philip Drive

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Springer/Kluwer Academic Publishers' Crystallography Program-featuring the International Tables for Crystallography (co-published with the IUCr)... *Volume A - Space-group symmetry, Brief teaching edition of Volume A; Volume B - Reciprocal space; Volume C - Mathematical, physical and chemical tables, Third Edition; Volume D - Physical properties of crystals; Volume E - Subperiodic groups; Volume F - Crystallography of biological macromolecules*. Kluwer is also the proud publisher of the *Journal of Chemical Crystallography and Structural Chemistry*. Visit the booth for a free sample journal and a conference discount off of texts like Lewars' *Computational Chemistry* and our 2004 essential major reference works.

TECAN #303

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Email: michelevalenta@tecan.com

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A leading provider of world-class automated liquid handling and laboratory robotic systems for over 23 years offers the Protein Crystallization Workstation (PCW), a fully automated solution for high performance protein crystal growth and screening studies. Automated applications include custom buffer creation and highly parallel set-up of sitting drop, hanging drop (new!) and microbatch experiments.

Features such as low-vibration incubators, dynamic anti-evaporation cover and a high-precision liquid handling arm help insure high-quality crystal formation. Integrated image capture and analysis systems enable real-time monitoring of crystal growth. User-friendly software allows simplified experimental set-up, with novel CrysTool converter for creation of multi-parametric work lists.

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Web: www.tritekcorp.com

CrystalPro is a fully integrated, computer controlled, high throughput, variable zoom microscopy system designed for detecting tiny crystals in large fields of view. Unique software enables the CrystalPro to auto-scan each well while capturing images, with annotation and time/date stamp, at a rate of 768 wells per hour. Customized program options include crystal discrimination and image analysis.

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