

# CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society December, 2004  
Vol. 42, No. 3

## Meeting Calendar

<b>Thurs. Dec. 9</b>	Janet Reid Xavier University
<b>Wed. Jan. 19</b>	Jennifer Holmgren TBA
<b>Wed. Feb. 16</b>	Chemist of the Year Givaudan Flavors
<b>Wed. Mar. 9</b>	Dr. Burkhard Jansen Genome Research Inst.
<b>Thurs. April 21</b>	High School Awards Northern Kentucky U.
<b>May</b>	Party Night! TBA

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## December Monthly Meeting

*"Diversity and Inclusion in Corporate America: A Chemist's Journey"*

Janet B. Reid, Ph.D.  
Global Lead Management Consulting



### Abstract

The demographics of the nation and the world continue to change daily. Maximizing the human resource potential of every organization and every person is a strategic imperative in today's business environment. The difference in organizational success and failure can lie in details often overlooked. This talk will provide key insights on how leveraging similarities and differences can create maximum success in the team/business setting.

### About the Speaker

Dr. Janet B. Reid earned a Ph.D. in Bioinorganic chemistry from Howard University and began her career at the Procter & Gamble Company as a research chemist. As her career progressed, Dr. Reid received a series of progressively more responsible positions, including section head and brand manager.

In 1998, Dr. Reid co-founded Global Lead Management Consulting, a full-service, management consulting firm with a portfolio of Fortune 500 and multinational corporate clients. Currently, Dr. Reid is a Principle Partner at Global Lead Management Consulting and is a proven leader in developing and implementing successful leadership, diversity and inclusion, marketing and strategic change initiatives in major corporations. Her particular expertise is in shaping corporate strategy and developing quantitative and quali-

(Continued on page 4)

**THE CINTACS NEWSLETTER****Vol. 42, No. 3 December, 2004**Editor.....Bruce S. Ault  
Advertising.....Ed Hunter

CINTACS is published nine times a year (September through May) by the Cincinnati Section of the American Chemical Society. The submission deadline will be approximately November 26 for the January, 2005 issue. Electronic submission is strongly preferred, except for original photos. All materials should be sent to:

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**From the Chair**

The upcoming meeting in December will be held at Xavier University and will feature Dr. Janet B. Reid, Chairwoman of the Greater Cincinnati Chamber of Commerce, as our after dinner speaker. Dr. Reid has used her scientific background and business experience very effectively in several different arenas. Janet is a widely renowned speaker with a lot to say. In addition, Professor Stig E. Friberg, an internationally recognized scientist in the area of colloid and surface chemistry, will speak at the Colloid Discussion group meeting. So, this meeting is a great opportunity to hear two outstanding speakers and will certainly be well worth your while. The December meeting is a joint meeting of the Cincinnati Section of ACS and the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE). The Cincinnati Section is indebted to Judson Haynes from P&G and Chair of the local chapter of NOBCChE and Dan McLoughlin from Xavier for their efforts in putting together this meeting and to Proctor & Gamble Company for sponsorship of the meeting.

Looking ahead, the January meeting on Wednesday, Jan. 19<sup>th</sup>, will feature Dr. Jennifer Holmgren, Director of Exploratory and Fundamentals Research at UOP. Dr. Holmgren received the Malcolm E. Pruitt award from the Council for Chemical Research in 2003.

The Oesper Banquet and Symposium in October with over 200 people at the poster session and banquet may well have set an attendance record. The Symposium on the following day was also well attended and clearly showed the impact Professor Whitesides has had on two or three generations of scientists. Congratulations- and a well deserved thank you - to Marshall Wilson and all the staff at the University of Cincinnati Chemistry Department for their efforts for making the Oesper Banquet and Symposium a great success. In addition, the Cincinnati section is most grateful to the Chemistry department for sponsorship of the October meeting.

After many years of dedicated service, Ted Logan has elected to retire as a Councilor (effective December 31). Bill Oliver has been named by the Board to be Ted's replacement and will serve the remainder of Ted's term from January 1 - December 31, 2005. Ted Logan has been active in the Cincinnati section since 1958 and has held every elected position in the section. He has given nearly 30 years of service as a Councilor. At one point in his career, Ted had attended 50 consecutive national meetings. Ted has certainly established a record of service that all of us will be well challenged to match. On behalf of the Cincinnati section, let me offer to Ted Logan our heartfelt thanks and appreciation for his many contributions over the years. Ted, we are all in your debt.

May all of you have a happy holiday season and a healthy and successful New Year!

**December Monthly Meeting**  
**December 9, 2004**  
**Conaton Board Room, Room 201 Schmidt Hall**  
**Xavier University**

**Joint meeting with Cincinnati/Dayton Section of the National Organization of Black Chemists and Chemical Engineers**

*Sponsored by the Procter and Gamble Company*

*Featured Speaker*  
**Janet B. Reid, Ph.D.**

Program

- 5:30 – 6:30      Board Meeting – Hinkle Hall, Third Floor Conference Room, Hinkle Room 301  
                    Colloid Chemistry Discussion Group – Linder Hall (Physics Building) , Room 103
- 5:30 – 7:00      Registration, Conaton Board Room, 2<sup>nd</sup> Floor, Schmidt Hall
- 6:00 – 7:00      Social (Cash Bar), Conaton Board Room
- 7:00 – 8:00      Dinner, Conaton Board Room (\$25.00 or \$12.00 for students, emeritus, unemployed and  
                    new members)

Pan Seared Chicken Breast with Hunter Sauce  
Garden Greens Salad with Italian Vinaigrette  
Wild Rice Pilaf  
Fresh Seasonal Vegetable Medley  
Fresh Baked Bread  
Chocolate Mousse with Raspberry Sauce, Whipped Cream and Chocolate Shavings  
Coffee, Tea.

Vegetarian Entrée Available upon Request when making reservations

- 8:00 – 9:00      Speaker, Janet Reid  
                    *“Demographics and Organizational Success”*

**Directions:**

The Xavier University Conaton Presidential Board Room is located on the second floor of Schmidt Hall. Parking is provided free **with the enclosed Parking Pass (see page 4, bottom)** at the F&W Center on Dana Avenue across the street from Schmidt Hall.

**I-71:** Exit at Dana Avenue exit. Proceed west on Dana Avenue past Ledgewood Drive. As the road begins a slight turn, the F&W parking area will be on the left before you reach Victory Parkway.

**I-75:** Exit at Mitchell Avenue. Proceed east on Mitchell Avenue, crossing over Reading Road. Continue to Dana Avenue and turn left. Just after crossing Victory Parkway, the entrance to F&W parking area will be on the right.

**Rt. 562:** Exit the Norwood Lateral at Reading Road. Continue in the left lane of Reading Road to Victory Parkway. Merge left onto Victory Parkway at the light. Continue to Dana Avenue. Turn left onto Dana Avenue. The entrance to F&W parking area will be on the right in about half a block.

(Continued from page 1)

tative measures of bottom line benefits.

She has earned many honors and awards, including being named the *Speaking of Women's Health* National Honoree in 2002, one of Success Guide 1998-99's Top Achievers, the Cincinnati Enquirer's Woman of the Year in 1996, and a member of Leadership Cincinnati in 1993. Her consulting firm received the Fifth Third Bank and Small Business News Enterprise Awards' Business of the Year Award in 1996. Dr. Reid has also received the Leading Women: Entrepreneur's Award and Procter & Gamble Product Development's Pioneering Black Woman Award.

Dr. Reid is a member of numerous professional associations, and her extensive board service includes being the first woman and first person of color to be chair of the board of the Greater Cincinnati Chamber of Commerce in over 160 years of its existence. She is also on the board of the Health Foundation of Greater Cincinnati, of which she was the first board chairperson; Cincinnati Center City Development Corporation; Catholic Healthcare Partners, Inc.; the Tom Peters Company; the Collaborative Law Center; the Port of Greater Cincinnati Development Authority; and the YWCA of Cincinnati.

## Younger Chemists Committee: Upcoming Happy Hour/Discussion

The Younger Chemists Committee will be meeting at the Oakley branch of the Cincinnati Public Library on Thursday, December 2, from 6-8 PM, for food, drinks, and conversation. (4033 Gilmore Avenue, off Madison Road, just east of Oakley Square) Besides schmoozing and casual chatting, we will have an informal discussion about career and professional issues facing younger chemists in academic, government, and industrial settings, AND ways to both utilize ACS and contribute to ACS. Questions and topic suggestions for the discussion as well as ideas for future activities are welcome- please contact YCC Chair Joy Henderson, 513-948-2359, [acscincinnati@yahoo.com](mailto:acscincinnati@yahoo.com), for more information, questions, or to reserve a spot. There is no charge to attend, but reserving a spot helps us make sure we have enough food for everyone (because that's what REALLY important!). Feel free to bring other younger chemist colleagues- we would LOVE to see some new faces! We'll have yummy food, interesting people, fabulous door prizes, and a chance to talk about challenges and opportunities for young chemists today. Come join us- it won't be as boring as it sounds. These younger chemists quite a wild bunch! ☺

XAVIER UNIVERSITY  
Conaton Presidential Board Room  
Second floor Schmidt Hall

## Temporary Reserved Parking Permit

Valid for American Chemical Society Meeting  
F&W PARKING AREA  
December 9, 2004

CARD MUST BE DISPLAYED ON PASSENGER SIDE OF DASHBOARD

## Colloid Discussion Group

### *The Misleading Simplicity of Emulsions*

**Professor Stig E. Friberg**  
Institute for Formulation Science  
USM, Hattiesburg, MS

*"It may seem simple, but wait until I have explained it to you."*

Seldom has this famous sentence been more justified than in any attempt to describe emulsions. Their definition: "Two liquids, of which one is dispersed in the other in the form of macroscopic droplets" is alluringly simple and as is often the case, when a simple and elegant solution is found to a problem; it is; if not completely wrong, at least incomplete.

Simple emulsions, according to the definition, do exist, but among commercial systems they are most truly a minority. As examples of the more complex systems may be mentioned the everyday

cosmetic or food emulsions, which consist of only of an oil, a surfactant and water, which are perceived as oil droplets dispersed in water; O/W. A considerable fraction of these are in fact a complex mixture of macro-, mini- and microemulsions; in addition to the fact that they also contain water-in-water, W/W, emulsions and different kinds of soft matter.

The lecture will relate the "family tree" of emulsions to the behavior of surfactants in water and to be truly dedicated to the motto of the lecture, the changes will be described that happen during evaporation of a really simple, carefully prepared model system. Finally these changes will be related to the application of emulsions in skin care.

#### About the Discussion Group Leader

Professor Stig E. Friberg is a former Founding Director of the Institute for Surface Chemistry in Stockholm, Sweden, former Distinguished Professor and Chairman of the Chemistry Department at UMR, Rolla, Missouri and Chairman of the Chemistry Department at Clarkson University.

*(Continued on page 7)*



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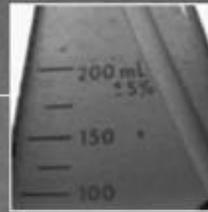
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## Educators Plan Two Gatherings in Second Semester

On Wednesday, February 2<sup>nd</sup>, the chemical educators' discussion group will assemble in Nancy Klas's classroom at St. Xavier High School to share creative classroom projects with one another. Plan to bring the directions for your favorite project or activity as well as samples of the student work. The finished project can include posters, models, power-point presentations, research papers, skits, songs, poems, et al. Invite a colleague to join us. At the October meeting, nineteen teachers enjoyed a presentation by Leigh Smith on his work in nanotechnology at the University of Cincinnati and a sharing session on material science. Directions to St. X (located at 600 W. North Bend Road) from any direction can be found at the school's website ([www.stxavier.org](http://www.stxavier.org)). Click on "About Us". Once you arrive at the school, enter through the main entrance and go up to the third floor. Take two immediate rights and follow the hallway to room 3568. We will begin at 6:30 PM with refreshments, social time, and announcements. The program will run from 7 PM to 8:30 PM.

In late May, the teachers will tour Rozzi Famous Fireworks and then share a pizza supper out in the Mason area. The date for the tour has not been established. Please contact Linda Ford ([Linda.ford@7hills.org](mailto:Linda.ford@7hills.org)) concerning your interest in participating in the tour and to give her your end of school schedule. We hope to set a date that will accommodate the larger number of interested teachers.

ChemEd2005 will be held in Vancouver, British Columbia next summer. A call for papers can be found at the website: <http://nobel.scas.bcit.ca/chemed2005>. Learn more about the conference and the presentation options; proposals are due by February 1, 2005.

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His research has been in the colloid chemistry of amphiphilic association structures within the areas of emulsions, microemulsions, vesicle solutions and foams. His scientific publications exceed 500 and he has several books to his name.

His research has attracted international recognition and he has received a large number of honors and awards; among them the ACS National Award in Colloid & Surface Chemistry (1985) and its 1991 award for Exceptional Achievement in its Continuing Education. In 1997 he received the highest honor from the German Colloid Society, the W. Ostwald Medal; the only American to be so awarded. He is one of four Americans to be honored by the Japanese Chemical Society for Excellence in Research and International Collaboration. He has also been honored with all the awards from The Society of Cosmetic Chemists, including their highest honor; the De Navarre Medal.

Among his other honors should be mentioned honorary doctorates from Japan, Finland and his native Sweden.

## Career Services: Volunteers for Resume Review/ Interviewing Practice

Career Services would like to host 2 evenings of resume reviewing and practice interview sessions for local members. We need some volunteers willing to participate as reviewers/interviewers in a two-hour session consisting of 4 25-minute meetings (allowing time for breaks in between) with individuals wanting to improve their resumes or practice interview responses. Your feedback, suggestions, and encouragement will be very beneficial—this would be a great opportunity to help some of our local section colleagues put their best foot forward when pursuing a new position. If you are willing to help out, please contact Career Services Chair Joy Henderson, 513-948-2359, [ascincinnati@yahoo.com](mailto:ascincinnati@yahoo.com). As an incentive, we'll make sure that tasty refreshments will be provided for you to enjoy! The dates (in early/mid March, tentatively), times, and locations will be announced in the February CINTACS.

## Update on Proposed Bylaws Changes

As reported in the September issue of CINTACS, a section membership vote on the adoption of several changes to the bylaws was planned for the November/December meeting. This will not take place as planned since the preliminary review of the changes by the National ACS Committee on Constitution and Bylaws has not been completed. Section membership approval of the changes is now anticipated to take place at one of the spring meetings.

Respectfully submitted,  
Ray D'Alonzo

## Meeting Sponsors, 2004-5 Program Year, Cincinnati Section, ACS

Here are six of the seven sponsors for our monthly Section meetings in the new program year. The 7th sponsor, for the April meeting, will be identified shortly. This group of schools, industries, and individuals have each contributed a minimum of \$1000 (in kind or cash) to sponsor our meetings by covering most meeting expenses such as speaker travel, lodging, and food; guest meals, A/V expenses, and the pre-dinner Social Hour.

The Section is very appreciative of these sponsors and their contributions because they ultimately lead to better talks, higher attendance, and more value to meeting attendees. Please thank them for their generosity and let them know you appreciate their contributions to the Section. A good time to do this would be when the donor is recognized at the sponsored meeting.

September Meeting	No Sponsor Solicited
October Meeting	UC Chemistry Department
November Meeting	No Meeting
December Meeting	Procter & Gamble Company
January Meeting	T.J. Logan
February Meeting	Givaudan
March Meeting	Genome Research Institute/ Girindus America
April Meeting	To Be Identified
May Meeting	Advanced Testing Laboratory

*If you do not believe in yourself you cannot expect other people to believe in you. --Cyrus Hepplewaite*

*Who gossips with you will gossip of you. --Irish Proverb*

## National Chemistry Week (NCW) 2004 Update!!

First of all, I want to THANK ALL of our NCW volunteers for making NCW 2004 a great success!! We had chemistry demonstration events in 41 different libraries from Cincinnati, Northern Kentucky, North Dearborn, Indiana, and as far North as Springboro, OH!! The number of children reached and the stories behind the events are trickling in everyday, I will share with you some of the highlights:

Children, and adults alike, at the Children's Learning Center & Anderson library were taken aback when they learned how much sugar is contained in soft drinks and the potential health risks associate with it, such as diabetes.

Meanwhile, at the Mariemont and Sharonville libraries the audience learned how toothpaste protects their teeth and the importance of brushing when our volunteers carried out the "Eggsperiment" demonstration.

At Miami Township/Cleves library children saw first hand how "iron/magnesium powder" is used as a heating agent to prepare meals on the spot that are distributed to people in need when a natural disaster occurs such as hurricanes or to our soldiers fighting abroad.

Several hundreds of people at the Cincinnati Museum Center saw themselves as "heat emanating" beings when they came up-and-close with Gloria Story's thermal camera. They also used the camera to learn about exothermic and endothermic reactions, and how the former can be used to create products such as ThermoCare® heatwraps and how they are different from other muscular relieving products.

Kids and adults in Springboro understood very well the importance of washing hands when "allergens" (green glitter in clear gel slime) were spread through human contact having a lot fun in the process.

These are only a few examples of the kinds of things that took place in our communities during NCW held on October 17-23 2004. Once again, I want to thank all of our volunteers for giving of their time and effort; and I also want to thank Givaudan, Procter & Gamble, and Cognis for their financial contribution. More to come in the next CINTACS issue!!

Victor M. Arredondo, NCW Chair



The foaming pumpkin demonstration

## Younger Chemists Committee: Request For Help!!!!

YCC would like to tour an oil refinery or nuclear power plant facility in Ohio. If you have a contact or a suggestion for how to go about setting this up, PLEASE PLEASE PLEASE contact YCC Chair Joy Henderson, 513-948-2359, accincinnati@yahoo.com. We are also open to other ideas for technical speakers and/or tours available- we would appreciate any help!

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## More National Chemistry Week Activities



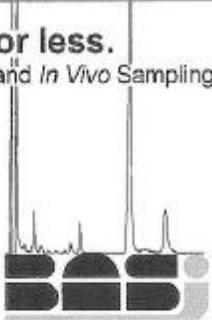
Seven Hills Junior Lily Yan discusses the exothermic reactions used to warm Heater Meals at Corryville Library



Lily Yan and Amy Sherman discuss stomach chemistry at the Corryville Library

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## New Program Aims to Help Mature Chemists

ACS industrial members age 45 and over who have lost their jobs, or have been given notice that they will become unemployed by December 31, are eligible for a pilot program that aims to assist them to return to work.

Five mid- and late-career members will receive financial subsidies to receive professional career coaching and to participate in the Chemjobs Career Center at the Spring 2005 National Meeting in San Diego. The new program, "Member Career Outreach," was launched this fall by the ACS Department of Career Services with the support of Corporation Associates.

Data show that mature chemists (age 45+) face very different challenges in securing employment than younger chemists. Not only are older workers more likely to be unemployed and to experience lengthy periods of unemployment, but they also may lack recent experience in looking for a job, face greater family and financial responsibilities than younger candidates, have outdated skills, bring unrealistic expectations to the job search, and suffer age discrimination.

According to data from the 2004 ACS Comprehensive Salary and Employment Status Survey, the unemployment rate is positively correlated with age. Not only is the unemployment rate higher for older chemists, but chemists over the age of 45 are likely to experience a lengthier period of unemployment than younger chemists. According to the latest survey, as of March 1, 2004, 38.5 percent of the unemployed age 45+ had been unemployed for a year or more, while only 17 percent of those under age 45 were unemployed for a long period.

The "Member Career Outreach" program will help grantees in four essential ways:

- It will provide financial support to receive professional career coaching, purchased online and delivered via telephone and e-mail. This personal, one-on-one assistance can help members refine their job-search strategy.
- It covers travel expenses to attend the Spring 2005 National Meeting in San Diego. This will enable grantees to participate in Chemjobs Career Center, including taking interviews with prospective employers and attending workshops and technical sessions.
- A reception for mid- and late-career job seekers and selected employers will be held at the San Diego National Meeting. This will afford grantees an opportunity to interact informally with other chemists, including prospective employers. Networking is known to be one of the main mechanisms by which job seekers learn of job opportunities and eventually secure positions.
- Each participant will receive a career transition workbook developed by the Department of Career Services. The workbook will guide ACS members through the stages of the career transition process as well as provide a record-keeping system for tracking the progress of their job search.

After advertising "Member Career Outreach" in Chemical & Engineering News, DCS will select awardees by a combination of lottery and evaluation of their application materials with the assistance of the Subcommittee on Professional Services of the Committee on Economic and Professional Affairs (CEPA). (CEPA reviews ACS career programs and services.) Those selected for the program will be notified in early January.

To apply for the program or for further information, contact Elaine Diggs at [e\\_diggs@acs.org](mailto:e_diggs@acs.org)

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## International Chemistry Olympiad Results

**Emily Tsui**, Potomac, MD, **Eric Brown**, Chattanooga, TN, **Fan Zhang**, Montvale, NJ, **John Leon Kiappes, Jr.**, Houston, TX, the nation's top high school chemistry students have each won a silver medal for the United States in the 36th annual International Chemistry Olympiad in Kiel, Germany.

The four competed with 234 students from 61 other countries in the event.

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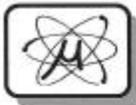
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## Award Nominations Solicited

### **Cincinnati Chemist of the Year**

The Section Awards Committee requests nominations for the 2004 Cincinnati Chemist of the Year. This award, given annually since 1950, recognizes professional accomplishments of a member. The 2004 Chemist of the Year will be the featured speaker at the February meeting. *Deadline for nominations is December 9, 2004 (the date of the December meeting!).*

### **Cincinnati Research Assistant of the Year**

The Section Awards Committee requests nominations for the 2004 Cincinnati Research Assistant/Chemical Technician of the Year. This award, given annually, recognizes job skills, safety, teamwork, leadership, publications and presentations, reliability, communications skills, and additional professional and community activities. A Chemical Technician/Research Assistant is defined as a person whose training includes successful completion of a two year post-high school chemistry curriculum or equivalent work in a Baccalaureate program, or equivalent knowledge gained by experience. The 2004 award will be presented at the February meeting. The winner will be the section's candidate for the National award. *Deadline for nominations is December 9, 2004 (the date of the December meeting!).*

### **Outstanding Teaching Awards**

Do you know a teacher who inspires his/her students? Fills them with a curiosity about the world of science and chemistry? The Cincinnati Section of the American Chemical Society is looking for these people – and honors three each year.

The *High School Chemistry Teacher of the Year* is awarded annually, to recognize accomplishments of those of us who teach chemistry at the secondary school level.

The *Middle School/Junior High School Science Teacher of the Year* is awarded annually to honor science teaching at this level.

The *Elementary School Science Teacher of the Year* is awarded for excellence in elementary teaching.

All three awards recognize teaching ability, enthusiasm, mentoring skills, and other leadership activities. Nominees need not be members of the American Chemical Society. Generally speaking, anyone teaching in these capacities within 35 mile radius of downtown Cincinnati is eligible. These awards will be given at the April Meeting.

*Deadline for the outstanding teaching nominations is January 19, 2004 (at the meeting).*

### **For a nomination form contact:**

Jim Hershberger Ph 513-529-2441  
Department of Chemistry Fax 513-529-1675  
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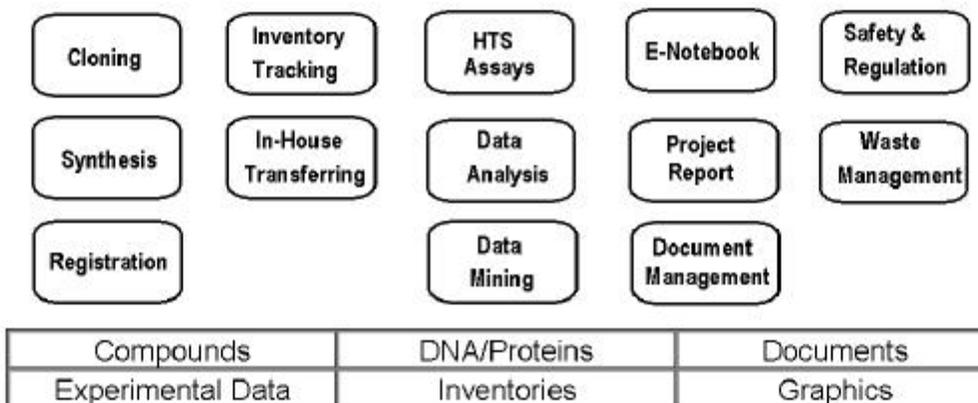
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