



## STN<sup>®</sup>: Multifile Searching for Scientific Information



Today's presenters are...



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## Goals for this seminar include...

- Demonstrating the benefits of the multifile STNindex environment
- Combining answer sets from different databases
- Conversion of fields from resulting records into searchable fields in other databases
- Extracting statistical information without reading the entire answer set
- How to remain on top of new developments relating to a multifile search

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## Search Question

### **Search Question:**

How do spider mites affect soybean production and what are the available treatments?



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## Sequential database searching offers some unique benefits

- The sequential search offers a searcher the opportunity to search in fields that may not exist in the other chosen databases
- The use of database specific terminology in the indexing fields will greatly enhance the precision of a search
- The duplicate commands are available to combine the results from the different databases

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## When presented with a search requiring unfamiliar databases, start with STNindex

- Step 1. HELP CLUSTER will display a list of all of the database groupings or "clusters"
- Step 2. INDEX (Cluster) will open the STNindex environment
- Step 3. Run the search in INDEX to see which databases have an acceptable number of records
- Step 4. Choose the databases that can give you the most information
- Step 5. Use the HELP CONTENT command to find content of new databases
- Step 6. Use the HELP DIRECTORY command to understand the help topics available in a new database
- Step 7. Run the search string in a database
- Step 8. Use the ANALYZE command to find additional indexing terms
- Step 9. Enhance the search in that database by including the additional indexing terms
- Step 10. Use the free display formats to evaluate the answer sets
- Step 11. Run the search in the other databases
- Step 12. Remove duplicates

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## STNindex environment offers the ability to investigate new database opportunities

- STNindex is a multifile environment that allows the exploration of all databases or subject clusters of databases to help choose the appropriate databases for your search
- While in STNindex, a low online charge is incurred as opposed to the full online charges incurred for each database of a multifile database search
- A query is generated that can be used in the chosen databases after leaving the STNindex environment
- A ranking of databases by the number of hits is available to help choose the appropriate databases
- Database information regarding the content is also available in the STNindex environment

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## Use HELP CLUSTER to see all of the database clusters STN® has to offer

=> **HELP CLUSTERS**

CLUSTER NAME	CLUSTER DEFINITION
--------------	--------------------

ADISBASES	ADISCTI, ADISINSIGHT, ADISNEWS Adis International Limited Database Cluster
AEROTECH	AEROSPACE, ANTE, CAPLUS, CIVILENG, COMPENDEX, DISSABS, ENERGY, EPFULL, FRFULL, INIS, INSPEC, MECHENG, NTIS, PASCAL, SCISEARCH, TEMA, USPAT2, USPATFULL, WPIDS, WPIFV, WPINDEX Aerospace and Related Technology Cluster
<b>AGRICULTURE</b>	AGRICOLA, ANTE, AQUALINE, BIOSIS, BIOTECHNO, CABA, CAPLUS, CBNE, CIN, CONFSCI, CROPB, CROPU, DISSABS, ENVIROENG, ESBIODBASE, FOMAD, FOREGE, FROSTI, FSTA, GENBANK, IFIPAT, LIFESCI, NAPRALERT, NTIS, PASCAL, PHIC, PHIN, PROMT, SCISEARCH, USPATFULL, USPAT2, WATER Agriculture Cluster

This looks like an appropriate cluster.

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## Use INDEX to find databases that contain the information that is needed

```
=> INDEX AGRICULTURE
=> S SOYBEAN AND SPIDER MITE

      36  FILE AGRICOLA
      69  FILE BIOSIS
       2  FILE BIOTECHNO
      40  FILE CABA
      36  FILE CAPLUS
       1  FILE CBNB
       1  FILE CONFSCI
       4  FILE CROPB
      17  FILE CROPU
       5  FILE DISSABS
       8  FILE ESBIOBASE
       1  FILE FSTA
       6  FILE IFIPAT
      .
      .
      .
20 FILES HAVE ONE OR MORE ANSWERS,   32 FILES SEARCHED IN STNINDEX

L1  QUE SOYBEAN AND SPIDER MITE
```

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## Use DISPLAY RANK to reorder the databases by the number of hits

```
=> D RANK
F1      1118  USPATFULL
F2      186  USPAT2
F3       69  BIOSIS
F4       40  CABA
F5       36  AGRICOLA
F6       36  CAPLUS
F7       27  LIFESCI
F8       26  PHIN
F9       26  SCISEARCH
F10     17  CROPU
F11     15  PASCAL
F12     14  PROMT
F13      8  ESBIOBASE
F14      6  IFIPAT
F15      5  DISSABS
F16      4  CROPB
F17      2  BIOTECHNO
F18      1  CBNB
F19      1  CONFSCI
F20      1  FSTA
```

USPATFULL and USPAT2 are both full text patent databases. However, the full text of patents should have a carefully crafted search. Consequently, these databases will be searched after the other databases searches are developed.

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## What is BIOSIS Previews® (BIOSIS®)?

=> **HELP CONTENT FILE=BIOSIS**

You are currently in the BIOSIS File. The BIOSIS File contains records for worldwide literature on biological and biomedical topics. For details about the current version of the database, enter NEWS FILE at an arrow (=>) prompt.

U.S. Patents are covered from 1986-1989 and 1995 to the present.

The records in this file contain bibliographic and indexing information, abstracts, chemical names, and CAS Registry Numbers.

The Basic Index contains CAS Registry Numbers and single words from the title (TI), abstract (AB), chemical name (CN), Index Term (IT), geographic term (GT), and **organism (ORGN)** search fields. The only words that are not indexed are the stopwords: AN, AND, AS, AT, BY, FOR, FROM, OF, IN, NOT, ON, OR, THE, TO, and WITH. Other information, such as author names, or index terms, is searched using field qualifiers, e.g., STEINMAN C G/AU.

For a list of additional messages giving information about the BIOSIS File, enter HELP DIRECTORY at an arrow prompt (=>)

•  
•  
•

Note that the Organism field could be a useful index search field.

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## Use HELP DIRECTORY to find what is available in BIOSIS

=> **HELP DIRECTORY FILE=BIOSIS**

The following HELP messages are available to obtain information on the BIOSIS File:

HELP ACCESSION - BIOSIS Accession Number formats  
HELP CASRN - searching with CAS Registry Numbers  
HELP CONTENT - general BIOSIS file description  
HELP COST - price schedule for the BIOSIS file  
HELP CROSSOVER - file crossover searching in BIOSIS  
HELP DESK - information on BIOSIS file user assistance  
HELP DFIELDS - list of display field codes  
HELP DSCAN - list of display fields shown in DISPLAY SCAN  
HELP EFIELDS - list of extraction fields in BIOSIS  
HELP FA - content of the FA (Field Availability) field

•  
•  
•

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## Use the preliminary search query from L1 in BIOSIS

=> FILE BIOSIS

=> S L1

```
73800 SOYBEAN
10698 SOYBEANS
78265 SOYBEAN
      (SOYBEAN OR SOYBEANS)
17883 SPIDER
9870  SPIDERS
22958 SPIDER
      (SPIDER OR SPIDERS)
24154 MITE
20296 MITES
35344 MITE
      (MITE OR MITES)
4190  SPIDER MITE
      (SPIDER(W)MITE)
L2      69 SOYBEAN AND SPIDER MITE
```

The L1 query has not been modified as a result of changing the database.

SET PLURALS ON PERM modifies the default to search for both the singular and plural forms of the term when the singular form is searched.

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## Use DISPLAY SCAN to view a few results from BIOSIS

=> D L2 SCAN

```
L2 102 ANSWERS BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
TI IMPACT OF FUNGAL EPIZOOTICS ON THE BIOLOGY AND MANAGEMENT OF THE
IT TWOSPOTTED SPIDER MITE ACARI TETRANYCHIDAE IN SOYBEAN.
IT Miscellaneous Descriptors
   NEOZYGITES-SP INVERTEBRATE PLANT FUNGUS SOYBEAN INFECTIVITY
   ECONOMIC PESTS ENVIRONMENTAL CONDITION TEMPERATURE HUMIDITY SPORE
   OVERWINTERING BIOLOGICAL CONTROL CROP INDUSTRY MIDWEST USA

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0
```

The taxon containing mites and ticks.

The family of spider mites.

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## Find additional database dependent Control and Organism Terms in BIOSIS by using ANALYZE

=> ANALYZE L2 CT ORGN

ENTER ANSWER NUMBER OR RANGE (1-):1-  
L3 ANALYZE L2 1- CT ORGN : 383 TERMS

=> D CT 1-40

L3 ANALYZE L2 1- CT ORGN : 383 TERMS

TERM #	# OCC	# DOC	% DOC	CT ORGN
23	56	56	81.16	ECONOMIC ENTOMOLOGY
25	47	42	60.87	AGRICULTURE
26	37	37	53.62	PEST ASSESSMENT CONTROL AND MANAGEMENT
27	35	35	50.72	PHYSIOLOGY
28	34	34	49.28	AGRONOMY
31	22	20	28.99	ENVIRONMENTAL SCIENCES
35	19	19	27.54	ECOLOGY
36	19	7	10.14	INSECTICIDE
39	15	4	5.80	EFFICACY
40	13	13	18.84	HORTICULTURE

These Control Terms are broad.

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## Top Organism terms from results

=> D ORGN 1-40

L3 ANALYZE L2 1- CT ORGN : 383 TERMS

TERM #	# OCC	# DOC	% DOC	CT ORGN
17	71	68	98.55	CHELICERATA
18	71	68	98.55	CHELICERATES
19	67	67	97.10	ACARINA
20	67	67	97.10	75403
21	64	61	88.41	LEGUMINOSAE
22	61	61	88.41	26260
24	56	12	17.39	SPECIES
29	31	15	21.74	INSECTS
30	29	15	21.74	INSECTA
32	22	14	20.29	HOST
33	21	21	30.43	SOYBEAN
34	20	20	28.99	TETRANYCHUS URTICAE

None of the first 16 terms from the Organism field stand out as useful in the search, but terms 19, 33 and 34 stand out and can be used in the search.

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## Use the Organism terms and combine with original search for comprehensiveness

```
=> S SOYBEAN/ORGN AND (TETRANY? OR ACARI?)/ORGN
      19678 SOYBEAN/ORGN
      2780 TETRANY?/ORGN
      70054 ACARI?/ORGN
L4      54 SOYBEAN/ORGN AND (TETRANY? OR ACARI?)/ORGN

=> S L4 OR L2

L5      102 L4 OR L2

=> D L5 SCAN

L5      102 ANSWERS BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
TI      RESISTANCE OF SELECTED GENOTYPES TO THE TWOSPOTTED SPIDER MITE
      TETRANYCHUS-URTICAE ACARINA TETRANYCHIDAE.
IT      Miscellaneous Descriptors
      FECUNDITY BIOASSAY
```

The original search had 69 answers using the organism terms increased the recall.

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## The next database would be CABA

```
=> D RANK
F1      1118  USPATFULL
F2      186   USPAT2
F3      69    BIOSIS
F4      40    CABA
F5      36    AGRICOLA
F6      36    CAPLUS
F7      27    LIFESCI
F8      26    PHIN
F9      26    SCISEARCH
F10     17    CROPU
F11     15    PASCAL
F12     14    PROMT
F13     8     ESBIODASE
F14     6     IFIPAT
F15     5     DISSABS
F16     4     CROPE
F17     2     BIOTECHNO
F18     1     CBNB
F19     1     CONFSCI
F20     1     FSTA
```

The RANK information is still available even though we have conducted a search in a single database.

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## Look at the top control terms from the CABA search

```
=> FILE CABA
=> S L1
L6          40 SOYBEAN AND SPIDER MITE

=> ANALYZE L6 CT ORGN
ENTER ANSWER NUMBER OR RANGE (1-):1-
L7          ANALYZE L6 1- CT ORGN :    406 TERMS

=> D 1-40 CT
L7          ANALYZE L6 1- CT ORGN :    406 TERMS

TERM #    # OCC  # DOC  % DOC  CT ORGN
-----
   13     38    38   95.00  SOYABEANS
   18     25    25   62.50  ARTHROPOD PESTS
   20     24    24   60.00  AGRICULTURAL ENTOMOLO
   23     21    21   52.50  LEGUMES
   25     19    19   47.50  CONTROL
   26     19    19   47.50  PEST CONTROL
   29     15    15   37.50  PLANT PESTS
   30     14    14   35.00  GRAIN LEGUMES
   31     14    14   35.00  PEST RESISTANCE
```

Soybean is spelled differently here. We will add this to our search query.

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CCS  
PestLife

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## Look at the top organism terms from the CABA search

```
=> D ORGN 1-40
L7          ANALYZE L6 1- CT ORGN :    406 TERMS

TERM #    # OCC  # DOC  % DOC  CT ORGN
-----
   11     38    38   95.00  GLYCINE (FABACEAE)
   17     27    27   67.50  TETRANYCHUS URTICAE
   19     25    25   62.50  FABACEAE
   24     20    20   50.00  ARTHROPODS
   28     15    15   37.50  GLYCINE MAX
   33     13    13   32.50  MITES
   36     12    12   30.00  TETRANYCHIDAE
   37     11    11   27.50  ACARI
   39      8     8   20.00  TETRANYCHUS

=> S SOYABEANS/CT AND (TETRANY? OR ACARI? OR MITES)/ORGN
L8          222 SOYABEANS/CT AND (TETRANY? OR ACARI?)/ORGN
```

We will add the additional organism terms to our search query.

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CCS  
PestLife

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## Scan the results of the CABA search

```

=> D L8 SCAN

L8 222 ANSWERS COPYRIGHT 2008 CABI on STN
TI Effects of Se on peroxidation damage of membrane lipids of soyabeans
induced by continuous cropping
CC FF100 Plant Production; FF060 Plant Physiology and Biochemistry; JJ700
Fertilizers and other Amendments; HH600 Host Resistance and Immunity
BT Glycine (Fabaceae); Papilionoideae; Fabaceae; Fabales; dicotyledons;
angiosperms; Spermatophyta; plants; Tetranychus; Tetranychidae;
Prostigmata; mites; Acari; Arachnida; arthropods; invertebrates;
animals
CT continuous cropping; soyabeans; glutathione peroxidase; enzyme
activity; lipid peroxidation; metabolism; resistance; arthropod pests;
selenium fertilizers; leaves
RN 9013-66-5
ORGN Glycine max; Tetranychus urticae; Glycine (Fabaceae)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1
    
```

Use D SCAN in this database to view the results.

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## Look at the Control Terms in AGRICOLA

```

=> FILE AGRICOLA

=> S L1

L9          36 SOYBEAN AND SPIDER MITE

=> ANALYZE L9 1- CT
L10        ANALYZE L9 1- CT :      87 TERMS

=> D 1-80

L10        ANALYZE L9 1- CT :      87 TERMS

TERM #    # OCC  # DOC  % DOC CT
-----
1         17    17    47.22 GLYCINE MAX
2         15    15    41.67 TETRANYCHUS URTICAE
          .
          .
          .
75         1     1     2.78 SOYBEAN OIL
76         1     1     2.78 SOYBEANS
    
```

It would appear that TETRANY? and SOYBEANS are the best choices for Control Terms.

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## Search the Control Terms in AGRICOLA

```
=> S (SOYBEAN OR SOYABEAN) AND (TETRANY? OR ACARI?)/CT
L11      24  SOYBEAN OR SOYABEAN) AND (TETRANY? OR ACARI?)/CT

=> S L11 OR L9
L12      42 L11 OR L9
```

The plural of SOYBEAN was searched even though the result did not show it because the SET PLURALS ON option was set permanently.

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## Conduct search in HCAplus

```
=> FILE HCAPLUS
=> S L1
L13      36 SOYBEAN AND SPIDER MITE

=> ANALYZE L13 1- CT
L14      ANALYZE L13 1- CT :      232 TERMS

=> D
L14      ANALYZE L13 1- CT :      232 TERMS
```

The reason we chose HCAplus will be more obvious when we transfer patent numbers (/PN) from USPATALL.

TERM #	# OCC	# DOC	% DOC	CT
1	19	16	44.44	INSECTICIDES
2	14	14	38.89	TETRANYCHUS URTICAL
3	11	11	30.56	SOYBEAN
4	10	10	27.78	ACARICIDES
5	8	8	22.22	SOYBEANS
6	7	6	16.67	TETRANYCHUS TELARIUS AND (OR) TWO-SPOTTED SPIDER MIT
7	5	4	11.11	SOILS
8	5	1	2.78	FATS AND GLYCERIDIC OILS, BIOLOGICAL STUDIES
9	4	4	11.11	GLYCINE MAX
10	4	4	11.11	RED SPIDER MITE

It looks like we can use all of the control terms in the search strategy for HCAplus.

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## Enhanced HCAplus search

```
=> S SOYBEAN/CT AND (ACARI? OR TETRANY? OR SPIDER MITE)/CT
L15      29 SOYBEAN/CT AND (ACARI? OR TETRANY? OR SPIDER MITE)/CT

=> S L15 OR L13
L16      56 L15 OR L13
```

The truncated Control Term "ACARI?" will pick up Acaricides.

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## Conduct search in the USPATALL cluster

```
=> FILE USPATALL
FILE 'USPATFULL' ENTERED AT 15:12:16 ON 11 MAR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATOLD' ENTERED AT 15:12:16 ON 11 MAR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 15:12:16 ON 11 MAR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

=> S ((SOYBEAN# OR SOYABEAN#) AND (TETRANY? OR ACARI? OR SPIDER
MITE#))/TI,AB,CLM,CT
L17      78 ((SOYBEAN OR SOYABEAN) AND (TETRANY? OR ACARI? OR SPIDER
MITE))/TI,AB,CLM
```

USPATOLD is also part of the USPATALL cluster.

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## Improve the search by using the enhanced titles and abstracts in HCAplus

```
L18 ANSWER 1 OF 1 USPATOLD on STN
AN 1973:69582 USPATOLD
TI 3 (N CARBAMYLOXIMINO) SATURATED THIOHETEROCYCLIC COMPOUNDS
IN MAGEE T
PA DIAMOND SHAMROCK CORPORATION
PI US 3755364 A 19730828
```

The records in the USPATALL databases contain titles and abstracts as written in the patent with no enhancements. In order to take advantage of the enhanced titles in Chemical Abstracts we must transfer the US patent numbers to HCAplus.

```
AN 1971:435744 HCAPLUS
DN 75:35744
OREF 75:5645a,5648a
TI Pesticidal oxime carbamates
IN Magee, Thomas A.
PA Diamond Shamrock Corp.
```

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## TRANSFER patent numbers to HCAPLUS

```
=> SET AUDIT ON
=> FILE HCAPLUS
=> TRANSFER L17 1- PN /PN
L18 TRANSFER L1 1- PN : 82 TERMS
L19 71 L2
L20 QUE TERMS FROM L2 WITH NO HITS: 4 TERMS
```

```
=> S L16 OR L19
L21 122 L16 OR L19
=> FILE USPATALL
=> S L20
L22 4 L20
ALL TERMS IN L4 RETRIEVED
```

Using the SET AUDIT ON command we were able to capture the patent search terms that did not transfer to HCAplus and create a smaller patent result set in the USPATALL cluster. We can simply take L20 with no hits and search it in USPATALL resulting in L22.

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## Remove duplicate references

```
=> SET DUPORDER FILE
=> DUP REM L21 L20 L6 L8 L5 L12

L18      383 DUP REM L21 L22 L6 L8 L5 L12 (123 DUPLICATES REMOVED)
        ANSWERS '1-122' FROM FILE HCAPLUS
        ANSWERS '123-124' FROM FILE USPATFULL
        ANSWERS '125' FROM FILE USPATOLD
        ANSWERS '126-340' FROM FILE CABA
        ANSWERS '341-393' FROM FILE BIOSIS
        ANSWERS '394-410' FROM FILE AGRICOLA
```

L21 = Combined search in HCAplus  
L22 = Remaining USPATALL hits not found in HCAplus  
L6 = CABA results  
L8 = CABA results  
L5 = BIOSIS results  
L12 = AGRICOLA results

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## A record from USPATOLD

```
L19 ANSWER 60 OF 383 USPATOLD on STN
AN 1972:59526 USPATOLD
TI ACYL SUBSTITUTED 2 BENZIMIDAZOLECARBAMATES
IN KLOPPING HEIN LOUIS (US)
PA E. I. DU PONT DE NEMOURS AND COMPANY
PI US 3636005 A 19720118
AI US 1970-56644 19700701
PRAI US 1970-56644 19700720
      US 1968-714462 19680320
      US 1967-629900 19670411
      US 1966-548034 19660506
DT Utility
FS GRANTED
EXNAM Primary Examiner: TROUSOF, NATALIE
LN.CNT 1038
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

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## Online tools to use with answer set results from a multifile search

- Perform statistical analysis and 2-dimensional data comparisons
  - **ANALYZE Plus** wizard
    - Use an L-number or the *Discover!* icon to ANALYZE one or two fields
    - From a single or multifile search
    - From DUPLICATE REMOVE process
    - System automatically implies ANALYZE and TABULATE
    - Get four different types of charts in Excel®
- Create a multifile current awareness alert
  - **SDI MFILE** command
  - New records added to databases from a specific search strategy



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## Apply ANALYZE Plus after conducting a multifile search

### **Search Question:**

Are there universities publishing on the topic of petroleum reactor modeling or simulation?



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## Search strategy to uncover databases

### Search Strategy:

- Step 1. Identify relevant cluster category or databases
- Step 2. Develop a universal search strategy
- Step 3. Run the search in multiple databases
- Step 4. Review records
- Step 5. Remove duplicates
- Step 6. Display results

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PetroData

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## Search the STNindex environment

```
=> INDEX PETROLEUM
```

```
INDEX 'ABI-INFORM, CAPLUS, CBNB, CIN, COMPENDEX, ENCOMPLIT,  
ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GEOREF, IFIPAT, INSPEC, NTIS, PASCAL,  
PROMT, TRIBO, TULSA, TULSA2, USPATFULL, USPAT2' ENTERED AT 10:09:33 ON 04 MAR  
2008
```

```
20 FILES IN THE FILE LIST IN STNINDEX
```

```
Enter SET DETAIL ON to see search term postings or to view  
search error messages that display as 0* with SET DETAIL OFF.
```

When the PETROLEUM cluster is used 20 databases are opened simultaneously that cover subjects related to the petroleum industry.

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## Identify favorite and unfamiliar databases

```
=> S PETROL? AND REACTOR (5A) (MODEL OR SIMULATION) AND ENGLISH/LA
L1  QUE PETROL? AND REACTOR (5A) (MODEL OR SIMULATION) AND ENGLISH/LA

=> D RANK
F1      343  CAPLUS
F2      303  USPATFULL
F3      205  ENCOMPLIT
F4      205  ENCOMPLIT2
F5      134  PROMT
F6      105  COMPENDEX
F7       59  PASCAL
F8       33  USPAT2
F9       29  TULSA
F10     24  INSPEC
F11     23  NTIS
F12      8  ABI-INFORM
F13      6  TULSA2
F14      4  GEOREF
F15      2  IFIPAT
F16      1  CBNB
```

Choose some favorite databases:  
**COMPENDEX, CAPLUS, INSPEC®.**  
For less familiar databases with good hits such as **ENCOMPLIT2**, remember to review its Database Summary Sheet, e.g., **HELP CONTENT FILE=ENCOMPLIT2** (ENCOMPLIT is only available to subscribers.)

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## Run a simultaneous search

```
=> SET ABB ON
SET COMMAND COMPLETED

=> SET PLURALS ON
SET COMMAND COMPLETED

=> FILE F6 F1 F4 F10

=> SET MSTEPS ON
SET COMMAND COMPLETED

=> S L1 AND PY>=2000
L2      40  FILE COMPENDEX
L3     161  FILE CAPLUS
L4      90  FILE ENCOMPLIT2
L5      20  FILE INSPEC
TOTAL FOR ALL FILES
L6     311  L1 AND PY>=2000
```

Conducted a simultaneous search using the F-numbers from **D RANK**:  
F6=COMPENDEX  
F1=CAPLUS  
F4=ENCOMPLIT2  
F10=INSPEC

**SET MSTEPS** is a great command to generate an answer set for each database being searched. L2-L5 can be individually refined, if desired.

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## Review some initial documents

=> D TRIAL L2 HIT 1

L2 ANSWER 1 OF 40 COMPENDEX COPYRIGHT 2006  
 TI Modern trends in CFD simulations: Applications  
 CC 461.6 Medicine; 511 Oil Field Equipment; 723.5 Computer Applications; 802.1 Chemistry; 804.1 Organic Compounds; 931.1 Mechanics  
 CT \*Computational fluid dynamics; Computer simulation; Drug products; Hydrocarbons; **Petroleum** industry; Herbicides; Chemical reactors  
 ST Multiphase **reactors**; Liquid hydrocarbons; Volume of fluid  
 PY 2006  
 LA English  
 AB Multiphase flow processes are frequently observed in several important **reactor** technologies. These technologies are found in diverse applications such as in manufacture of **petroleum**-based fuels and products, conversion of synthesis gas into liquid hydrocarbons (Gas-  
 ●●●  
 ●●● for development of appropriate **reactor models** and scale-up  
 ●●● and VOF (Volume of fluid) **simulations** of bubble column **reactors**  
 ●●●  
 CT \*Computational fluid dynamics; Computer simulation; Drug products; Hydrocarbons; **Petroleum** industry; Herbicides; Chemical reactors

Look at how the highlighted search terms relate to your search and look at other terms.

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## Review documents from other selected databases

=> D TRIAL L4 HIT 1

L4 ANSWER 1 OF 90 ENCOMPLIT2 COPYRIGHT 2006  
 TI A two-phase **reactor model** for the steam-gasification of carbonaceous materials under concentrated thermal radiation  
 CC COKES; ENERGY SOURCES; ENGINEERING; OTHER STUDIES; PETROLEUM REFINING AND PETROCHEMICALS; PETROLEUM SUBSTITUTES; PRIMARY PRODUCTS; SOLAR  
 CT CARBONACEOUS MATERIAL-A; COAL-A; COAL GAS-P; \*COAL GASIFICATION; COKE-A; COMPOSITION; CONCENTRATED; CONCENTRATION;  
 ●●●  
 ●●● CONDITION; **PETROLEUM** COKE-A; PHYSICAL PROPERTY; POWER; PROBABILITY; PROTOTYPE; \*RADIATION;  
 ●●●  
 LT CARBONACEOUS MATERIAL-A; COAL-A; COKE-A; PETROLEUM COKE-A  
 LT MULTIPHASE; MULTIPLE; OPERATING CONDITION; TWO  
 LT GASIFIER; MODEL; PROTOTYPE; REACTOR ATM Template not available

This record is from ENCOMPLIT2 and includes the LT field.

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## Review documents from other selected databases

=> D SCAN L3

```
L3 161 ANSWERS CAPLUS COPYRIGHT 2008 ACS on ST
CC 51-23 (Fossil Fuels, Derivatives, and Related Products)
TI Modeling, Simulation, and Multi-objective Optimization of an
   Industrial Hydrocracking Unit
ST modeling simulation multiobjective optimization hydrocracking
IT Petroleum cracking
   Petroleum hydrotreating
     (hydrocracking; modeling, simulation, and multi-objective
     optimization
     of an industrial hydrocracking unit)
IT Optimization
   (multi-objective; modeling, simulation, and multi-objective
   optimization of an industrial hydrocracking unit)
IT Reactors
   (petroleum refining; modeling, simulation, and
   multi-objective optimization of an industrial hydrocracking unit)
IT Petroleum refining
   (reactors; modeling, simulation, and
   multi-objective optimization of an industrial hydrocracking unit)
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0
```

Note that we are using D SCAN here.

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## Display a record from each database

=> SET DUPORDER FILE  
SET COMMAND COMPLETED

=> DUP REMOVE

ENTER L# LIST OR (END):L6

PROCESSING COMPLETED FOR L6

```
L7          256 DUP REMOVE L6 (55 DUPLICATES REMOVED)
           ANSWERS '1-40' FROM FILE COMPENDEX
           ANSWERS '41-181' FROM FILE CAPLUS
           ANSWERS '182-239' FROM FILE ENCOMPLIT
           ANSWERS '240-256' FROM FILE INSPEC
```

=> D L7 1 FROM EACH

The **D 1 FROM EACH** will automatically take the first answer from each of the databases in the L# and display it using the format desired. In this case it will be the default format for the database.

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## Review the answers from COMPENDEX and Caplus

L7 ANSWER 1 OF 256 COMPENDEX COPYRIGHT 2008 EEI on STN DUPLICATE 2  
AN 2008(7):11802 COMPENDEX [Full-text](#)  
TI A two-phase reactor model for the steam-gasification of carbonaceous materials under concentrated thermal radiation.  
AU Z'Graggen, A. (Department of Mechanical and Process Engineering ETH Zurich, 8092 Zurich, Switzerland); Steinfeld, A.  
SO Chemical Engineering and Processing: Process Intensification v 47 n 4 April 2008 2008.p 655-662

●●●

L7 ANSWER 41 OF 256 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1  
AN 2007:1434625 CAPLUS [Full-text](#)  
DN 148:242267  
TI Simulation and analysis of different quenching alternatives for an industrial vacuum gas-oil hydrotreater  
AU Alvarez, Anton; Ancheyta, Jorge  
CS Eje Central Lazaro Cardenas 152, Instituto Mexicano del Petroleo, Mexico City, 07730, Mex.  
SO Chemical Engineering Science (2008), 63(3), 662-673  
CODEN: CESCAC; ISSN: 0009-2509

●●●

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**CS**  
Full-Text

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## Review the answers from ENCOMPLIT2 and INSPEC

L7 ANSWER 182 OF 256 ENCOMPLIT2 COPYRIGHT 2008 ELSEVIER INC. on STN  
AN 2008:2906 ENCOMPLIT;ENCOMPLIT2 [Full-text](#)  
DN L200802907  
TI Study of nonisothermal gas-oil catalytic cracking applying the microactivity test  
AU Sertic-Bionda K.; Gomzi Z.; Muzic M.; Fabulic-Ruszkowski M.  
CS Faculty of Chemical Engineering and Technology, University of Zagreb; Research and Development Sector, INA-Industrija Nafte d.  
SO Petroleum Chemistry 48/1 6-14 (January 2008). ISSN: 0965-5441.

●●●

L7 ANSWER 240 OF 256 INSPEC (C) 2  
AN 2008:9760855 INSPEC [Full-text](#)  
TI Modeling the hydrodynamics in a reactor  
AU Changning Wu (Tsinghua University, Beijing, China), Yi Cheng (Tsinghua University, Beijing, China), Yong Jin (Tsinghua University, Beijing, China)  
SO Powder Technology (12 Feb. 2008), vol.181, no.3, p. 255-65, 37 refs. CODEN: POTEEX, ISSN: 0032-5910

●●●

Recall the search question: Are there universities publishing on petroleum...?

**STN**

**CS**  
Full-Text

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## Use ANALYZE Plus to extract statistical data without reading an entire answer set

- Online research is not always for technical or scientific information but rather it is to possibly find:
  - Top researchers/organizations in a specific industry
  - Patent assignees within a particular technology
  - Journal titles for collection development within a specific research venue
  - New employees through HR recruitment

## Next step is to uncover the leading organizations in this specific industry

### **Search Question:**

Who are the top universities publishing on the topic of petroleum reactor modeling or simulation?

## Search strategy using ANALYZE Plus

### Search Strategy:

- Step 1: Use L-answer set hyperlink to chose the **ANALYZE Plus** wizard option or the *Discover!* icon
- Step 2: Choose one or two fields to analyze; click ANALYZE button to start the process
- Step 3: Display answers, if desired
- Step 4: View the various Microsoft<sup>®</sup> Excel graphical charts

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Discover

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## Click either the L-number to get the Analyze Plus option or the *Discover!* icon

```
=> DUP REMOVE
ENTER L# LIST OR (END):L6
PROCESSING COMPLETED FOR L6
L7      256 DUP REMOVE L6 (55 DUPLICATES REMOVED)
        ANSWERS '1-40' FROM FILE COMPENDEX
        ANSWERS '41-181' FROM FILE CAPLUS
        ANSWERS '182-239' FROM FILE ENCOMPLIT
        ANSWERS '240-256' FROM FILE INSPEC
=>
```

Use the L-answer set from the DUPLICATE REMOVE process.

- Select the appropriate option
- Analyze Plus...
  - Analyze...
  - Display...
  - Refine...
  - Save...
  - Save for R-group Analysis...
  - Save for STN Analyst™...
  - Save Answers for SciFinder®...
  - Single File SDI...
  - Get Related Polymers...
  - Get Related Sequences...
  - Create CAS RN® and Role Report...
  - Evaluate with STN Viewer

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Discover

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## Choose one or two field analysis

STN Analyze Plus Wizard

Analyze this L-number on 1 or 2 fields. Select "Group similar terms" to be able to group terms within a field. The results will be charted in Microsoft Excel. Click Analyze to process the information. Click Cancel to exit.

256 answers are available to analyze.

One field analysis

Select first field

- Author/Inventor Name
- Corporate Source/Patent Assigned
- Company Name
- Publication Year
- Controlled Terms
- Patent Country
- National Classification
- WIPO International Classification

by SubClass  by Main group  All

Group similar terms

Two field analysis

Select second field

- Author/Inventor Name
- Corporate Source/Patent Assignee
- Company Name
- Publication Year
- Controlled Terms
- Patent Country
- National Classification
- WIPO International Classification

by SubClass  by Main group  All

Group similar terms

Buttons: Analyze, Cancel

This example is using two field analysis.

The system will automatically run an ANALYZE and TABULATE processes.

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## First, select how the names are to be displayed...all terms or by grouped terms?

Data Group Tool - CS 137 terms from 188 original terms

Show all included terms

Show included grouped terms

Show ignored terms

Buttons: Rename, Ignore, Group, Ungroup, Ungroup All, Regroup All, Expand All, Collapse All, Undo, Redo

Buttons: < Back, Next >, Cancel

Data Group Tool - CS 137 terms from 188 original terms

Show all included terms

Show included grouped terms

Show ignored terms

Buttons: Rename, Ignore, Group, Ungroup, Ungroup All, Regroup All, Expand All, Collapse All, Undo, Redo

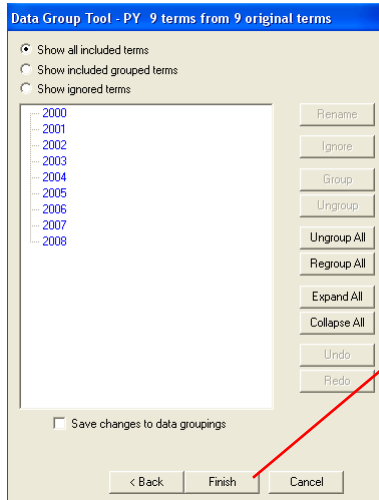
Buttons: < Back, Next >, Cancel

STN

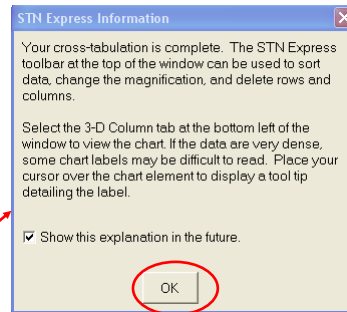
COS  
SOFTWARE

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## Decide on the data groupings by years



You could create groupings of more than one year if desired.



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Software

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## View the top universities in this cross-tab display with document years

	2000	2001	2002	2003	2004	2005	2006	2007	2008
1									
2		1	2	5	3	5	1		
3		1	1		1	1	1	1	
4	1	1					1	1	
5		2		1	2				
6		1		2	1				
7		1				1	1	1	
8	1					1	2		
9	1						1	1	
10	1			1			1		
11				1		1	1		

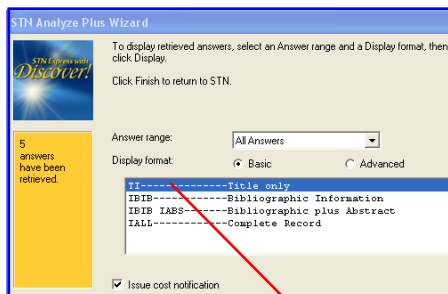
The highlighted numbered boxes contain documents. Double clicking on any cell will allow the retrieval of records. Alternatively, more than one cell can be highlighted using the control key. To display these, use the Display Records button at the top.

**STN**

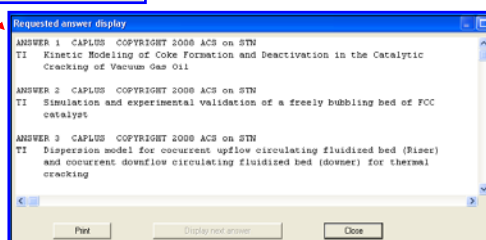
**COS**  
Software

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## View records from any of the universities



Use any of the formats to display the records.



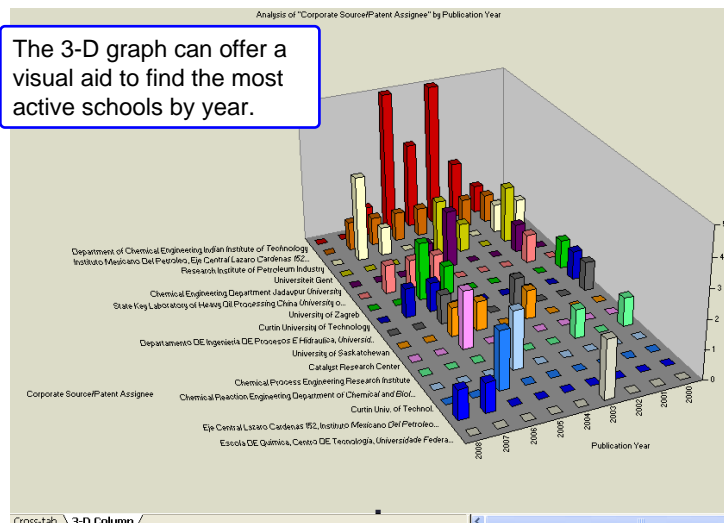
STN

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Solutio

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## Analyze Plus offers wonderful 3-D column graphics in Excel

The 3-D graph can offer a visual aid to find the most active schools by year.

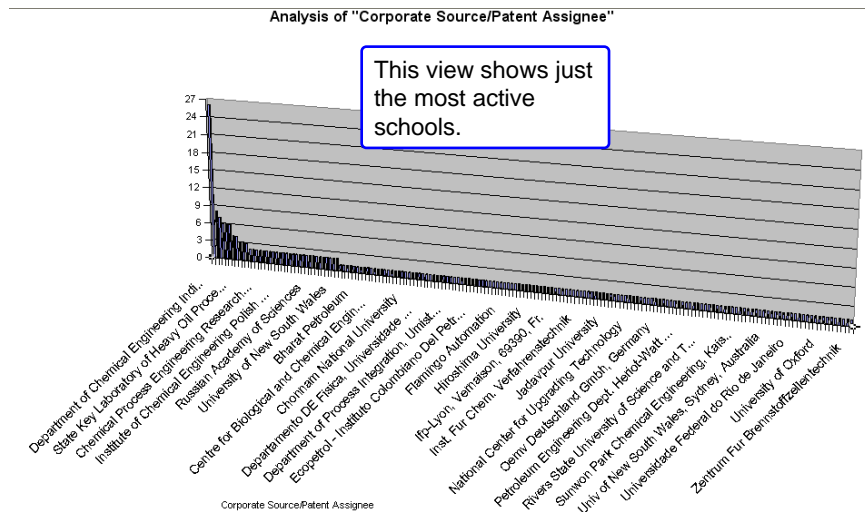


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## This Microsoft Excel chart is generated from a one field analysis



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## Excel results generated from a one field analysis

	A	B	C
1			
2	Department of Chemical Engineering Indi...	26	
3	Chemical Engineering Department Jadavp...	8	
4	Instituto Mexicano Del Petroleo	7	
5	Natl. Technical University of Athens	6	
6	Research Institute of Petroleum Industry	6	
7	Universiteit Gent	6	
8	Faculty of Chemical Engineering and Tec...	4	
9	State Key Laboratory of Heavy Oil Proces...	4	
10	Departamento DE Ingenieria DE Procesos	3	
11	Institut Francais Du Petrole	3	
12	University of Saskatchewan	3	
13	Aristotle University of Thessaloniki	2	
14	Catalyst Research Center	2	
15	Chem. Proc. Eng. Research Institute	2	
16	Chemical Process Engineering Research	2	

This is only a partial list but you can easily view the top universities and their respective number of documents.

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There are various methods available in which to identify potential employees for HR

**Search Question:**

Find potential candidates for Human Resources based on the initial search question on petroleum reactor and modeling or simulation.

Remember that our initial search was for publications in English. This would demonstrate an ability to communicate in English.



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## Search strategy to uncover potential industry specific candidates

**Search Strategy:**

- Step 1: Use L-answer set hyperlink to chose the [Analyze Plus](#) wizard option or the *Discover!* icon
- Step 2: Choose one or two fields to analyze; click ANALYZE button to start the process
- Step 3: Display answers, if desired
- Step 4: View the various Excel graphical charts
- Step 5: Run a search in **Dissertation Abstracts** (DISSABS) to uncover additional candidates



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## View the key authors (candidates) and their institutions in the Cross-tab display

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	STN Express with Discover! Analysis Edition																				
2	Towfighi, Jafar	6	1																		
3	Niaei, Aligholi	3	1																		
4	Ancheyta, Jorge			3																	2
5	Gomzi, Zoran							3													
6	Marin, Guy B.						6														
7	Vasalos, Iacovos A.												2		2	2					
8	Bellos G.D.				4						1										
9	Da Silva, Raissa M. Cotta F.																				
10	Fabulic-Ruszkowski, Maja							2													
11	Froment, Gilbert F.		2																		
12	J. Heynderickx, Geraldine						3														

This view associates the authors with the schools.

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COS

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## Use Analyze Plus to identify the key authors (candidates)

	A	B	C	D	E	F	G	H	I	J
1		2000	2001	2002	2003	2004	2005	2006	2007	2008
2	Towfighi, Jafar			1	3	1		2		
3	Ancheyta, Jorge						1	2	2	1
4	Niaei, Aligholi			1	2	1		2		
5	Marin, Guy B.				1	2				
6	Gomzi, Zoran			2						
7	Heynderickx, Geraldine J.			1		1		3		1
8	Vasalos, Iacovos A.	1			2	1				
9	Da Silva, Raissa M. Cotta F.				1	2				
10	Fabulic-Ruszkowski, Maja							3		

It is probably a good idea to look for the most recent publications here.

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## Dissertations Abstracts can help identify potential candidates

### Search Strategy:

Step 1: Use [File DISSABS](#)

Step 2: Use L-number answer set from previous search

Step 3: Display results

## Recall the L-number answer set from earlier search conducted with multiple databases

```
=> FILE DISSABS  
FILE 'DISSABS' ENTERED AT 23:51:35 ON 09 MAR 2008  
COPYRIGHT (C) 2008 ProQuest Information and Learning Company; All Rights Reserved.
```

```
=> S L6
```

```
L8          4 L1 AND PY>=2000
```

The DISSABS database has identified 4 potential candidates.

## Display records to uncover additional promising new candidates for HR

=> D L8 BIB 1,3  
L8 ANSWER 1 OF 4 DISSABS COPYRIGHT (C) 2008 ProQuest Information and Learning Company; All Rights Reserved on STN  
AN 2007:54905 DISSABS Order Number: AAIC826491 (not available for sale by UMI)  
TI Thermodynamic and kinetic analyses of the solar thermal gasification of **petroleum** coke  
AU Trommer, Dominic Claudio [Dr.sc.techn.]  
CS Eidgenoessische Technische Hochschule Zuerich (Switzerland) (0663)  
SO Dissertation Abstracts International, (2006) Volume 68, Number 1C, p. 291. Order Number: AAIC826491 (not available for sale by UMI). 207 pages.  
DT Dissertation  
FS DAI  
LA **English**  
ED Entered STN: 20070831  
Last Updated on STN: 20070831

This candidate studied in Switzerland, but his dissertation is in English.

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**CS**  
ProQuest

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## Another displayed document from DISSABS

L8 ANSWER 3 OF 4 DISSABS COPYRIGHT (C) 2008 ProQuest Information and Learning Company; All Rights Reserved on STN  
AN 2003:56685 DISSABS Order Number: AAI3083379 [Full-text](#)  
TI **Modeling** of a hydrogenated vacuum gas oil hydrocracker  
AU Govindhakannan, Jagannathan [Ph.D.]; Riggs, James B. [advisor]  
CS Texas Tech University (0230)  
SO Dissertation Abstracts International, (2003) Volume 64, Number 3B, p. 1368.  
Order Number: AAI3083379. 115 pages.  
DT Dissertation  
FS DAI  
LA **English**  
ED Entered STN: 20031201  
Last Updated on STN: 20031201

Here is a candidate from Texas Tech.

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**CS**  
ProQuest

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## Automatic current awareness multifile alerts

- Remain on top of new developments relating to this multifile search
- Ability to set up one alert that uses different queries from different databases
- Ability to remove duplicates from the results
- Ability to choose the alerting frequencies available from the different databases
- A PACKAGE SDI is available for delivering the alert results in an “electronic” package at the end of the month



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## Setting up a Multifile SDI

### **Search Strategy:**

- Step 1: Open all of the databases that are to be used in the alert
- Step 2: SDI MFILE or ALERT MFILE or SDI PACKAGE
- Step 3: Follow the wizard to completion



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## Decide if all or a couple of the databases will be part of the multifile SDI

```
=> FILE COMPENDEX CAPLUS ENCOMPLIT2 INSPEC DISSABS

=> SDI MFILE
MULTIFILE SDI GENERAL PARAMETERS
-----
ENTER MULTIFILE SDI REQUEST NAME ('AA004/S'), OR END:PETROMODEL/S
ENTER TITLE (NONE):PETROLEUM REACTOR MODELS SIMULATIONS
ENTER COST CENTER (NONE) OR NONE:.
ENTER METHOD OF DELIVERY (OFFLINE), ONLINE, OR EMAIL:EMAIL
ENTER EMAIL ID (6312C):KROBINSON@CAS.ORG
KROBINSON@CAS.ORG
RECEIVE DELIVERY NOTIFICATION? (Y)/N:N
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN? Y/(N):Y
HIGHLIGHT HIT TERMS? (Y)/N:Y
SEND SDI WITH NO ANSWERS? (Y)/N:N
ENTER SDI EXPIRATION DATE 'YYYYMMDD' OR (NONE):20080502
```

These are general questions where the answers are common to all the database specific questions.

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## CAplus has more specific questions

```
MULTIFILE SDI FILE SPECIFIC PARAMETERS: CAPLUS
-----
ENTER COMPONENT SDI REQUEST NAME ('AA004/S') OR END:PETROMODELCA/S
ENTER QUERY L# FOR MULTIFILE SDI REQUEST OR END:L3
ENTER UPDATE FIELD CODE (UP) OR ?:UP
ENTER PRINT FORMAT (BIB) OR ?:BIB
ARCHIVE ANSWERS? Y/(N):N
REDISTRIBUTE ANSWERS? Y/(N):N
ENTER MAXIMUM NUMBER OF HITS TO BE PRINTED PER RUN (100):20
SORT SDI ANSWER SET (N)/Y?:N
DISPLAY CURRENCY INFORMATION? (Y)/N:N
ENTER SDI RUN FREQUENCY - DAILY, (WEEKLY), BIWEEKLY, OR ?:BIWEEKLY
```

End each database-specific SDI Request Name with a few letters of that database, e.g., PETROMODELCA for CAplus.

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## Confirmation is provided at the end of the last completed multifile SDI

```

MULTIFILE SDI FILE SPECIFIC PARAMETERS: DISSABS
-----
ENTER COMPONENT SDI REQUEST NAME ('AA004/S') OR END:PETROMODELDI/S
ENTER QUERY L# FOR MULTIFILE SDI REQUEST OR END:L8
ENTER UPDATE FIELD CODE (UP) OR ?:UP
ENTER PRINT FORMAT (BIB) OR ?:BIB ABS
ARCHIVE ANSWERS? Y/(N):N
REDISTRIBUTE ANSWERS? Y/(N):N
ENTER MAXIMUM NUMBER OF HITS TO BE PRINTED PER RUN (100):20
SORT SDI ANSWER SET (N)/Y?:N
MULTIFILE SDI HAS BEEN SAVED AS SDI REQUEST 'PETROLMODEL/S'
QUERY L2 HAS BEEN SAVED AS SDI REQUEST 'PETROMODELCO/S' FOR FILE COMPENDEX
QUERY L3 HAS BEEN SAVED AS SDI REQUEST 'PETROMODELCA/S' FOR FILE CAPLUS
QUERY L4 HAS BEEN SAVED AS SDI REQUEST 'PETROMODELEN/S' FOR FILE ENCOMPLIT2
QUERY L5 HAS BEEN SAVED AS SDI REQUEST 'PETROMODELIN/S' FOR FILE INSPEC
QUERY L8 HAS BEEN SAVED AS SDI REQUEST 'PETROMODELDI/S' FOR FILE DISSABS
    
```

Not all SDI file specific parameters are illustrated. The last one is shown above with confirmation.



## Forgot the names of those multifile SDIs?

```

=> D SAVED/S
NAME                CREATED      NOTES/TITLE
-----
PETROLMODEL/S      10 MAR 2008 SDI MFILE REQUEST
                  PETROLEUM REACTOR MODELS SIMULATIONS
PETROMODELCA/S     10 MAR 2008 CAPLUS MEMBER OF SDI PETROLMODEL/S
                  PETROLEUM REACTOR MODELS SIMULATIONS
PETROMODELCO/S     10 MAR 2008 COMPENDEX MEMBER OF SDI PETROLMODEL/S
                  PETROLEUM REACTOR MODELS SIMULATIONS
PETROMODELDI/S     10 MAR 2008 DISSABS MEMBER OF SDI PETROLMODEL/S
                  PETROLEUM REACTOR MODELS SIMULATIONS
PETROMODELEN/S     10 MAR 2008 ENCOMPLIT2 MEMBER OF SDI PETROLMODEL/S
                  PETROLEUM REACTOR MODELS SIMULATIONS
PETROMODELIN/S     10 MAR 2008 INSPEC MEMBER OF SDI PETROLMODEL/S
                  PETROLEUM REACTOR MODELS SIMULATIONS
    
```



## Questions and answers...

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<b>May 2008</b>	
<b>May 8, 2008</b> 9:00- 10:00 EDT	<a href="#">STN: Multifile Searching for Scientific Information</a>
<b>May 27, 2008</b> 13:00- 14:00 EDT	<a href="#">STN: Searching Formulations on STN®</a>
<b>June 2008</b>	
<b>June 12, 2008</b> 9:00- 10:00 EDT	<a href="#">STN: Searching Formulations on STN®</a>
<b>June 24, 2008</b> 13:00- 14:00 EDT	<a href="#">STN: Highlights from the 2008 STN Patent Forum</a>
<b>July 2008</b>	
<b>July 10, 2008</b> 9:00- 10:00 EDT	<a href="#">STN: Highlights from the 2008 STN Patent Forum</a>
<b>July 29, 2008</b> 13:00- 14:00 EDT	<a href="#">STN: Revealing the Mysteries of MARPAT®</a>
<b>August 2008</b>	
<b>August 14, 2008</b> 9:00- 10:00 EDT	<a href="#">STN: Revealing the Mysteries of MARPAT®</a>
<b>August 26, 2008</b> 13:00- 14:00 EDT	<a href="#">STN: Finding Licensing Information on STN®</a>

<http://casevents.webex.com>

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**STN®: Multifile Searching for Scientific Information**