

# STN<sup>®</sup>

Apply your Skills - E-seminar for the  
experienced searcher not familiar with STN

FIZ Karlsruhe

# STN – Apply Your Skills

You know how to search on other online services and you want to learn how to do similar things on STN?

# Agenda

1. Introduction to STN International
2. STN offers you:
  - User Interfaces
  - Databases on STN: An Overview
  - Command Line Language: Features and comparison of commands, special features
  - Cost effective searching
3. Where can you find help?
4. Summary

# STN is the Scientific and Technical Information Network

- STN is an online database service that provides global access to published research in all area's of Science & Technology
- STN is a virtual partnership operated jointly by [CAS](#) in the US and [FIZ Karlsruhe](#) in Europe



# STN Interfaces for professional searchers



Classic online access to STN with Web links and assistants for professional searchers  
Including **post-processing** and **analysis** tools for reports & tables



Browser based online access for professional searchers with the benefits of the Web

# Content: Subject areas of files

Access to about 150 databases in all areas of science and technology

**Agriculture &  
Food Science**

**Bioscience &  
Medicine**

**Business**

**Electronics**

**Energy**

**Engineering**

**Environmental  
Science**

**Geoscience**

**Health &  
Safety**

**Materials  
Science**

**Math &  
Computer  
Science**

**Multi-  
disciplinary  
Science**

**Physics**

**Social  
Sciences**

**Chemistry**

**Patents**

# Focus of STN: Content

## Chemistry

- Comprehensive coverage
- CA with Abstracts
- Chem. Structure searching in 8 files incl. CAS Registry<sup>SM</sup> DCR, ReaxysFile<sup>TM</sup>

## Patents

- Only place: CAplus<sup>SM</sup> + DWPI<sup>SM</sup> + INPADOC
- 16 Fulltext files + most important bibliographic files
- Value-add version of INPADOC
- Enhanced family retrieval

## Engineering

- All important files
- Unique design of INSPEC, PQSciTech, COMPENDEX
- Thesauri
- Citation searching

## Lifescience

- All important Bio and Medical files  
→ also for Pharmcovigilance searches
- largest repository of publicly available bio-sequence information from patents and journals

# The STN Command Line Interface

- Precise and comprehensive searches
- Versatile language for text, structure and numeric searches
- Provides tools for straightforward analysis and evaluation of data and information
- Let you use commands you are accustomed to using on other online services



# STN Multifile Searching

- Easily search in many files simultaneously
- Switch between files
- Eliminate or identify duplicates
- Perform current awareness searches with duplicate detection in single or multifile environment

# Entering an STN database

- Login places you in the HOME file
- Move to another database using the FILE command:
- => **FILE WPINDEX**
- Aliases for the FILE command:

<b>BEGIN or B</b>	=> B WPINDEX => BEGIN WPINDEX
<b>BASE</b>	=> BASE WPINDEX
<b>CHANGE</b>	=> CHANGE WPINDEX
<b>CHOOSE</b>	=> CHOOSE WPINDEX
<b>ENTER</b>	=> ENTER WPINDEX

# More Command Aliases

SEARCH (S)	EXPAND (E)	DISPLAY (D)	SAVE	LOGOFF
FIND, F	NEIGHBOR, NBR	TYPE , T	STORE	BYE DONE
SS	ROOT	SEE		END EXIT
	SCAN	SHOW		GOODBYE OFF
	MORE			QUIT SIGNOFF
	NEXT			

# Example for viewing terms in Search Index and Searching

=> FILE REGISTRY

=> E TOCILIZUMAB/CN

```
E1          1      TOCHUINOL ACETATE/CN
E2          1      TOCHUINYL ACETATE/CN
E3          1  --> TOCILIZUMAB/CN
E4          1      TOCINAMIDE/CN
E5          1      TOCINAMIDE, DEAMINO-/CN
  ○ ○ ○
```

=> S TOCILIZUMAB/CN

```
L1          1 TOCILIZUMAB/CN
```

Look up drug name and find synonyms for a Pharmacovigilance search in CAS REGISTRY<sup>SM</sup>

The field code is added at the end of the term /CN = Chemical Name

Also possible for searching:  
=> S E3

generally you can also search L-Numbers on STN  
=> S L1

# Example for Display of Result

=> **DISPLAY**

ENTER (L1), L# OR ?:L1

ENTER ANSWER NUMBER OR RANGE (1):1

ENTER DISPLAY FORMAT (IDE):.

RN 375823-41-9 REGISTRY

CN Immunoglobulin G1, anti-(human interleukin 6  
mouse monoclonal MRA heavy chain), disulfide  
monoclonal MRA  $\kappa$ -chain, dimer (CA INDEX NAME

OTHER NAMES:

CN Actemra

CN Actemra 200

CN Atlizumab

CN MRA

CN R 1569

CN RoActemra

CN **Tocilizumab**

o o o

LC STN Files: ADISINSIGHT, ANABSTR, CA, CAPLUS, CBNE, CHEMISTS,  
CHEMLIST, EMBASE, IMSPATENTS, IMSRESEARCH, I  
TOXCENTER, USAN, USPAT2, USPATFULL  
(\*File contains numerically searchable pro

o o o

If commands are spelled out, the system asks for all the information missing and gives a suggestion in ().

The short version of Display (=> D) assumes the first record of the last answer set in the default format.

System is flexible about the order of information:  
=> DIS L1 1 IDE  
=> DIS IDE L1 1 etc.

LC = Locator field to point you from CAS REGISTRY file to other STN databases with information on this Registry number

# Truncation and Character Masking

	Symbol	Definition	e.g.	Retrievals
Unlimited truncation	?	Zero or any number of characters at the end of a term	grow?	grow grows growing growth
Limited truncation	#	Zero or one character at the end of a term. Multiple # may be used.	grow#	grow grows
	!	Exactly one character at the end of a term	amin!	amine amino
Internal masking	!	Exactly one character within one term	t!th	teeth tooth truth

# Truncation and Character Masking

- Plurals : **SET PLURALS ON** automatically includes plurals
- Truncation: 120 STN databases have simultaneous left and right truncation (**SLART**) in the specified search fields, e.g.=> **S ? PRECIPIT ?** retrieves:  
coprecipitate, reprecipitated, precipitate, ...
- Where available, SLART is typically possible in the Basic Index
- Also recommended: **SET ABBREVIATIONS ON, SET SPELLINGS ON**

# Using SET commands to enhance your search

```
=> S HEMOGLOBIN
L1      59305 HEMOGLOBIN

=> SET ABBREVIATIONS ON; SET PLURALS ON; SET SPELLINGS ON
=> S HEMOGLOBIN
      59305 HEMOGLOBIN
      79970 HEMOGLOBINS
     118060 HEMOGLOBIN
           (HEMOGLOBIN OR HEMOGLOBINS)
      1352 HAEMOGLOBIN
        47 HAEMOGLOBINS
      1393 HAEMOGLOBIN
           (HAEMOGLOBIN OR HAEMOGLOBINS)
     118557 HEMOGLOBIN
           (HEMOGLOBIN OR HAEMOGLOBIN)
     113948 HB
        11703 HBS
     118069 HB
           (HB OR HBS)
L2      167547 HEMOGLOBIN
           (HEMOGLOBIN OR HB)
```

The abbreviation for hemoglobin is Hb.

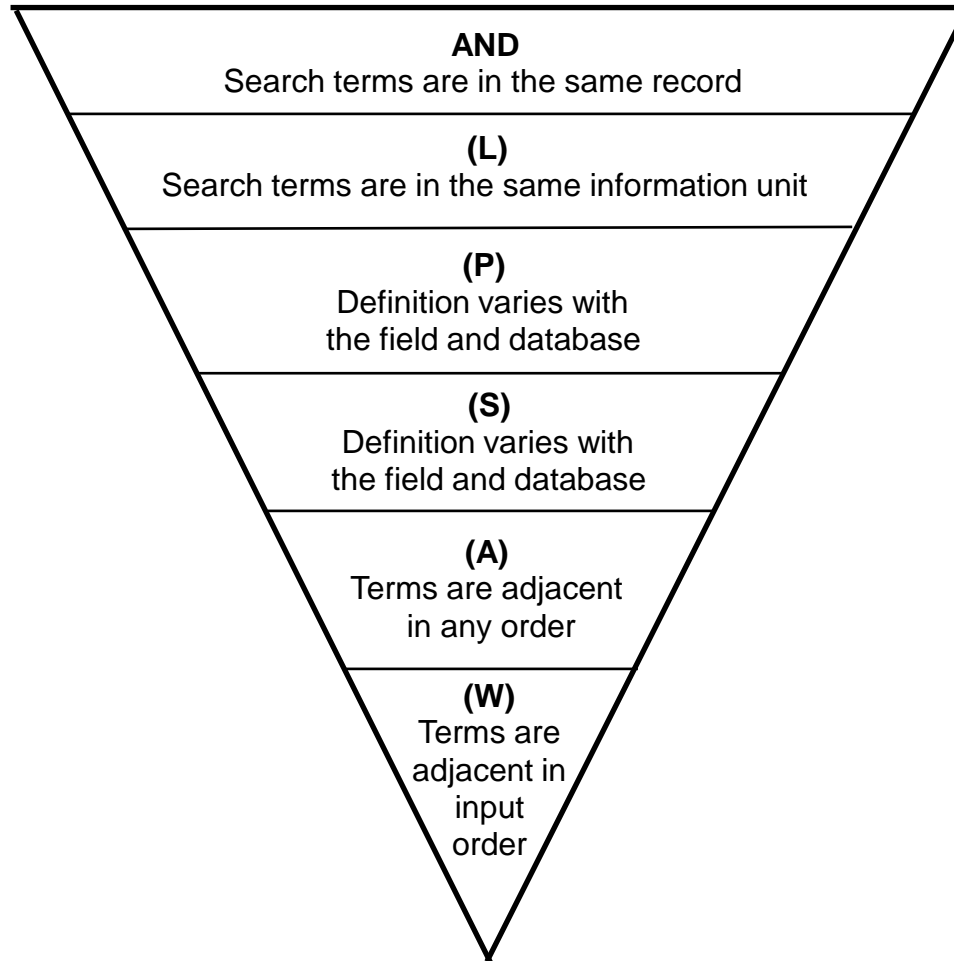
PLU, ABB and SPE combine to include a number of variations to get a final search result (L2).



# Proximity Operators

Terms and Order	STN
0 adjacent terms, order respected	personal(W)computer
Up to n words, order respected	european(1W)community
Adjacent terms, any order	english(A)french english(N)french
Up to n words, any order	water(1A)oil water(1N)oil
Terms in the same sentence, any order	marine(S)pollution
Terms in the same field, any order	optical(L)fibre
Terms in the same record, any order	light and refrigeration
Terms are related or connected controlled terms	landscape/ct(S)design/ct
All occurrences of the first term where it is not near the second term	computer(NOTA)science

# Proximity Overview



# Logical (Boolean) Operators

- The Boolean operators (**AND**, **OR**, **NOT**) are always written in full. They are employed the way you are used to
- Enclose OR-ed terms in parentheses, e.g.=>  
**S (LEMON OR LIME) AND JUICE**
- **NOT** can be used to eliminate documents containing terms
- **NOTL**, **NOTP**, **NOTS**, **NOT W**, and **NOTA** eliminate documents containing terms with the specified proximity.

# Implied Proximity

In the Basic Index, (W) is assumed when a space or punctuation is placed between terms. The appropriate (nW) is assumed if a stopword is used in the phrase.

User Inputs:

=> S COAL GASIFI?

=> S X-RAY

=> S POLLUTION OF THE AIR

STN Searches:

COAL (W) GASIFI?

X (W) RAY

POLLUTION (2W) AIR

# Search Example from the area of detergents

=> FIL WPINDEX

=> S TALLOW (L) ALKYL (W) SULFATE? (L) (SURFUCTANT? OR DETERGENT?  
OR EMULSIF?)

7439 TALLOW

717451 ALKYL

156910 SULFATE?

180475 SURFUCTANT?

66874 DETERGENT?

94674 EMULSIF?

L2 124 TALLOW (L) ALKYL (W) S DETERGEN  
T? OR EMULSIF?)

Find studies on tallow-alkyl  
sulfate surfactants  
WPINDEX = Derwent World  
Patents Index  
CPlus = Chemical Abstracts  
database

=> FIL CAPLUS

=> S L2

21755 TALLOW/BI

735490 ALKYL/BI

834439 SULFATE?/BI

359418 SURFUCTANT?/BI

138931 DETERGENT?/BI

141599 EMULSIF?/BI

L3 149 TALLOW/BI (L) ALKYL/BI (W) S /BI  
OR DETERGENT?/BI OR EMULSIF?/BI,

A structure search would be  
required for fully or partially  
defined substances, in this  
example Tallow is not defined  
as a structure

L-numbers can be reused  
also after switching back and  
forth

# Manage your search results

## STN Search Results

Relevance Ranking (FOCUS)

Sort Results (SORT)

Extract Terms for Analysis or Tabulation (SELECT)

Eliminate Duplicate Answers (DUPLICATE)

Store and Recall Search results (SAVE)

Print Answer Sets (PRINT)

Order Documents through FIZ AutoDoc (ORDER)

# Searching Cost-Effectively

- INDEX command is a cost effective way to pre-determine which STN databases contain the information you are seeking.
- Many free display options, e.g. TRIAL and SCAN
- Cost effective learning file for all major databases, e.g.=> develop / practice your search strategy
- Set cost limits on search and display, e.g.=> not to exceed amounts.
- LOGOFF HOLD, e.g. hold your search session for 120 minutes at no charge.

# Exploring which files contain information on specific LEDs

=> INDEX ENGINEERING

```
INDEX '1MOBILITY, 2MOBILITY, AEROSPACE, APOLLIT, A  
CANPATFULL, CAPLUS, CEABA-VTB, CIN, CNFULL, COMPEN  
ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, ENER  
GBFULL, GEOREF, IFIALL, INFULL, INSPEC, ...'
```

49 FILES IN THE FILE LIST IN STNINDEX

=> S (LIGHT EMITTING DIODE OR LED) (10A) (ALGAINP OR ALINGAP OR INGAALP)

```
48 FILE AEROSPACE  
5 FILE AUPATFULL  
32 FILE CANPATFULL  
o o o  
2 FILE WELDASEARCH  
141 FILE WPIDS  
141 FILE WPINDEX
```

28 FILES HAVE ONE OR MORE ANSWERS, 49 FILES SEARCHED IN STNINDEX

L1 QUE (LIGHT EMITTING DIODE OR LED)(10A)(ALGAINP OR ALINGAP OR INGAALP)

STNindex helps to identify files with answers to your search question. It is a cost-effective way to preview the number of answers

The Engineering cluster is used



# Entering relevant files after INDEX command

```
=> D RANK
```

```
F1      1191    USPATFULL
F2      1185    JPFULL
F3       615    CNFULL
F4       562    USPAT2
F5       415    CAPLUS
F6       288    PCTFULL
F7       277    INSPEC
F8       275    IFIALL
F9       192    COMPENDEX
F10     161    EPFULL
F11     144    PQSCITECH
```

```
o o o
```

```
=> FIL F5 F7 F9 F11 F14 F16 F18
```

```
=> S L1
```

```
L3      415 FILE CAPLUS
L4      277 FILE INSPEC
L5      192 FILE COMPENDEX
L6      144 FILE PQSCITECH
```

```
o o o
```

```
TOTAL FOR ALL FILES
```

```
L9     1282 (LIGHT EMITTING DIODE OR LED)(10A)(ALGAINP OR ALINGAP OR NGAALP)
```

DISPLAY RANK orders the files. The F-Numbers can be used as aliases for the database names

The non-patent databases are selected

# Eliminating Duplicates

```
=> SET DUPORDER FILE
SET COMMAND COMPLETED
```

This command simply helps to keep the answer in the order of the database

```
=> DUP REM
```

```
ENTER L# LIST OR (END):L9
```

```
L10          768 DUP REM L2 (514 DUPLICATES REMOVED)
              ANSWERS '1-415' FROM FILE CAPLUS
              ANSWERS '416-577' FROM FILE INSPEC
              ANSWERS '578-653' FROM FILE COMPENDEX
              ANSWERS '654-715' FROM FILE PQSCITECH
              ANSWERS '716-724' FROM FILE SCISEARCH
              ANSWERS '725-753' FROM FILE PASCAL
              ANSWERS '754-768' FROM FILE TEMA
```

514 duplicates were removed. There are also options just to identify them or to show duplicates only

```
=> D TRIAL 1 FROM COMPENDEX
```

```
L10      ANSWER 578 OF 768 COMPENDEX COPYRIGHT 2013 EEI on STN. DUPLICATE 5
AN       2013-2016324146      COMPENDEX
TI       Reduction of surface defects on the GaP with
AlGaInP LED using post-Zn diffusion process
CC       546.3 Zinc and Alloys; 549.3 Others, incl.
         o o o
CT       *Gallium alloys; Diffusion; Zinc
ST       Algainp leds; Diffusion layers; Diffusion process; Doping o o o
```

Display in the free Format TRIAL. The same result would be => D TRIAL L10 578

# What we did not cover in this presentation...

- Alerts (SDIs):
  - Single SDIs, Multifile SDIs, Delivery Options
- Structure Search and Sequence search options
- STN-Express functions to support your search and post-processing
  - Wizzards, Creating tables and reports
- Analysis of Results
- STN Fulltext solution, STNAnaVist, STNViewer

# What we did not cover in this presentation...

- Extracting information from a database and search them in other database(s) (TRANSFER)
- Many powerful features for patent searching
- Searching for numeric properties also in text information

. . .and many more powerful features on STN!

# Getting Help When You Need It

- Free STN Help Desks
- Online HELP, e.g. HELP DISPLAY, HELP COST
- Links to user meetings, user documentation, monthly e-seminars, workshops, etc. on [www.stn-international.com](http://www.stn-international.com)  
[www.cas.org](http://www.cas.org)
- STNewsline: monthly newsletter containing database news, search tips and tricks

## Why apply your skills

- Multiple user interfaces to access the STN platform
- STN is the only platform where you can search WPINDEX, INPADOC and CAPLUS (full-abstracts) databases.
- Flexible command language including recognised aliases from other online providers
- Cost effective searching; INDEX command, free display formats, low cost learning files
- Expert help by Help Desks and STN Trainers

# STN<sup>®</sup>

For more information ...

CAS

E-mail: [help@cas.org](mailto:help@cas.org)

Support and Training:

[www.cas.org](http://www.cas.org)

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