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2007, Issue No. 3

# STNNews

CODEN: STNWEQ ISSN: 1040-1229 Vol. 23 No. 3

North American Edition

## STN<sup>®</sup>

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# STN<sup>®</sup> Viewer<sup>™</sup>

## A powerful workflow productivity tool for patent information users



***STN<sup>®</sup> Viewer<sup>™</sup> combines the power of STN<sup>®</sup> with an easy-to-use interface for efficient patent management and evaluation.***

Patent information professionals need tools to efficiently identify relevant patents and to focus on pertinent content within patent publications. STN Viewer is designed to aid in the patent evaluation process and provides an efficient way for patent information professionals to communicate findings to intellectual property professionals and others interested in full-text patent information.

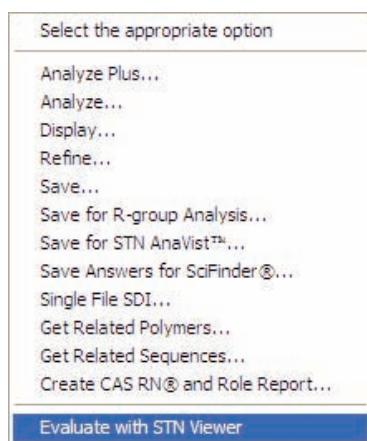
STN Viewer is the only patent evaluation tool integrated with the high-quality full-text patent databases on STN and the precise searching capabilities and post-processing features of STN Express<sup>®</sup>.

With STN Viewer, you can:

- Seamlessly transition from patent searching to patent evaluation
- Quickly evaluate patents for relevancy
- Reduce the time needed to evaluate large patents
- Improve communication of patent evaluation results

## Getting started with STN Viewer

Within STN Express, you can click an L-number or patent number to launch STN Viewer.



### Create a set of patent documents

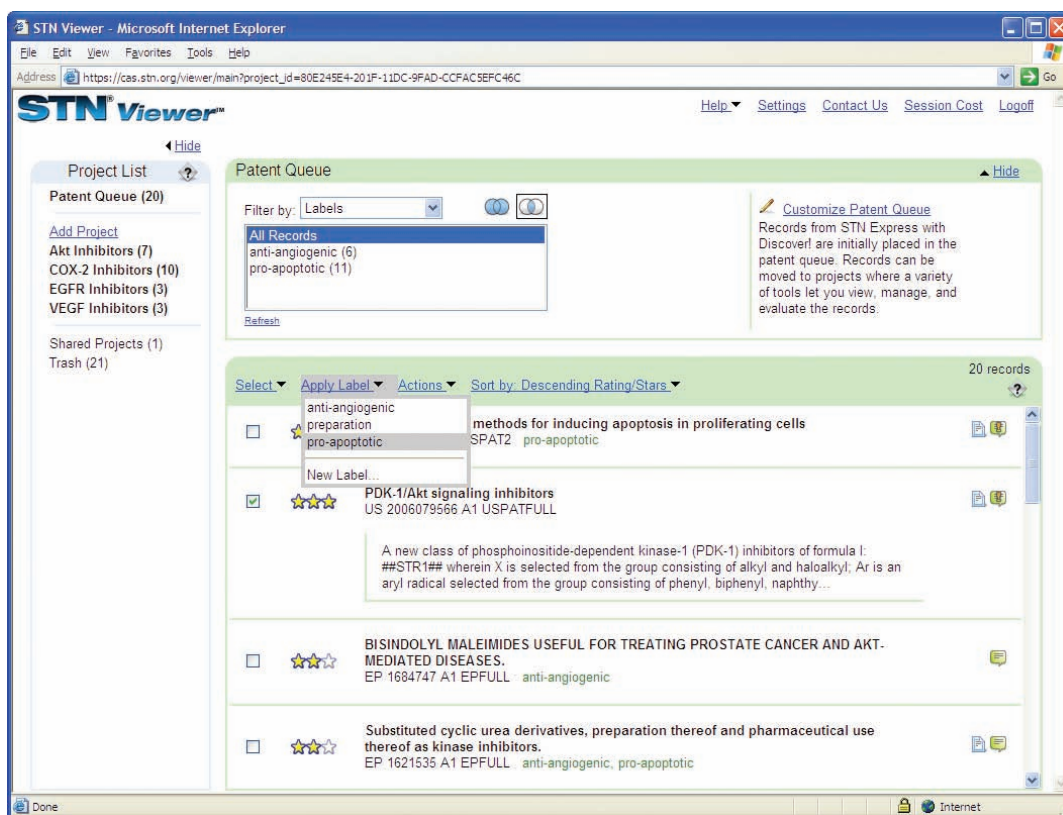
To use STN Viewer, conduct a search with STN Express, Version 8.2, in STN databases that include patent information, including full-text patent databases and indexed databases with patent content (i.e., CAPlus<sup>SM</sup>, Derwent World Patents Index<sup>®</sup>). Next, click an L-number or a patent number from a displayed patent record and select **Evaluate with STN Viewer**.

Patent documents are then retrieved from STN full-text patent databases and sent to STN Viewer, which launches in your default web browser. If you have existing patent projects in STN Viewer, they may be accessed directly at <https://cas.stn.org/viewer>.

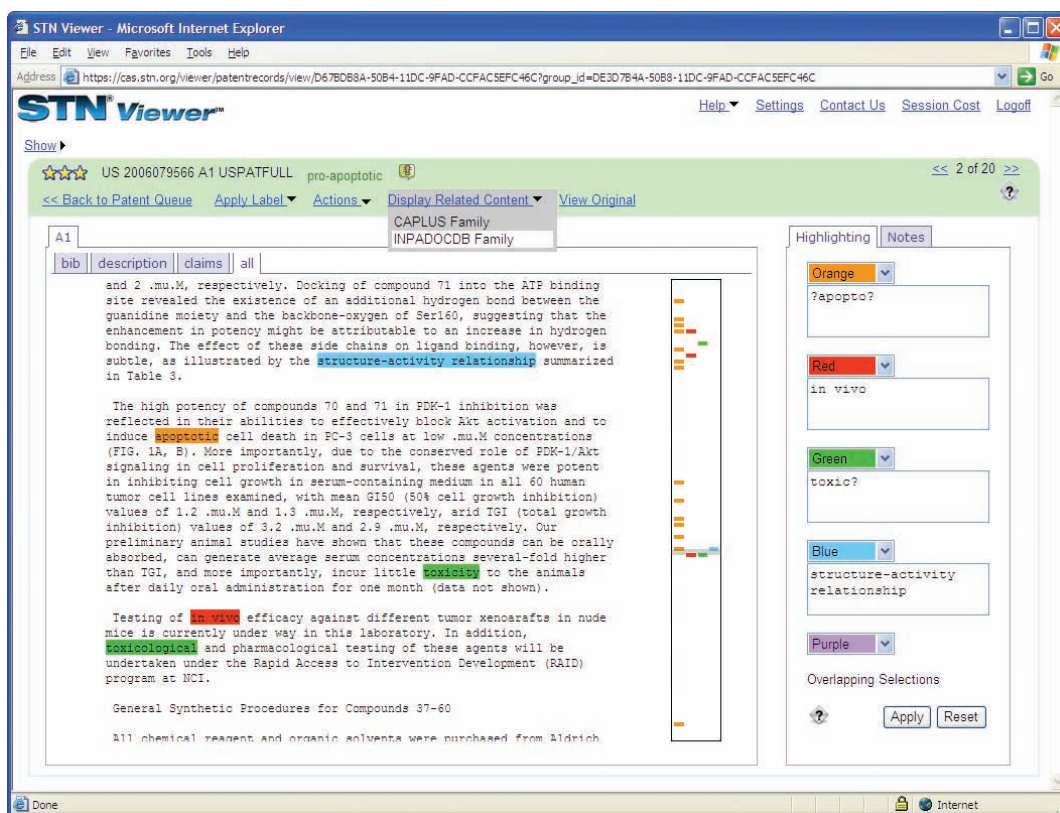
### Manage all of your patent documents and quickly determine relevancy

- View full patent titles, patent numbers, and partial abstracts
- Add custom labels, ratings, and annotations to individual documents
- Sort and filter document sets

When you have identified a subset of relevant patent documents, you can send them to a custom patent project and share them electronically with patent agents, patent attorneys, research scientists, and others.



STN Viewer launches in your web browser to let you manage patent documents from STN Express.



*View the full-text document for in-depth evaluation.*

## Conduct an in-depth evaluation of each patent document

If a more thorough analysis of a document is needed, click a patent title to display the entire full-text patent document:

- View major sections, the entire full-text patent document, or view the original patent document via ChemPort®
- Access publication stage and patent family information, including legal status and designated states
- Locate terms of interest – specify concepts, phrases, and numbers for text highlighting
- Streamline navigation of large patents with the document highlighting map

## Pricing for STN Viewer

Pricing for STN Viewer includes fees for displaying patent documents and patent family information and fees for long-term storage of saved patent information projects. All fees are covered under the STN Fixed Fee Plan.

Unlike other patent evaluation products, there are:

- No annual subscription or software fees
- No login fees or charges for viewing document titles, patent numbers, or partial abstracts
- No additional fees to share patent projects

## More information

For details about STN Viewer, including pricing, FAQs, See How It Works examples, and tutorials, visit the Products & Services and Support web pages for STN Viewer at [www.cas.org](http://www.cas.org).

Companion articles in this issue provide additional information on how to use STN Viewer:

- **STN Expressway** – Creating full-text patent answer sets for evaluation with STN Viewer
- **STN Viewpoint** – Using the highlighting feature to speed the patent evaluation process

Database News includes information on database enhancements released in July and August 2007. For additional information, refer to the STN® Database Summary Sheets available at [www.cas.org](http://www.cas.org).

## BEILSTEIN

### **Updated with new compounds**

More than 290,000 new compounds and recent supplementary data for approximately 170,000 compounds were added to BEILSTEIN. Currently, BEILSTEIN contains more than 10 million organic compounds and more than 8.7 million substances with information on reactions.

## CA<sup>SM</sup>/CAplus<sup>SM</sup>

### **Enhanced with additional kind codes for granted patents**

Additional kind codes have been added to CA/CAplus for granted patents received prior to the published patent application. The kind codes are used for selection of basic patents and include:

- B1 – Korean Intellectual Patent Office (KR)
- B2 – Japan Patent Office (JP)
- B2 – United States Patent and Trademark Office (US)
- B4 – German Patent and Trademark Office (DE)
- C – Canadian Intellectual Property Office (CA)
- P3 – United States Patent and Trademark Office (US)

First available publication dates for granted patents from JP, US, DE, and CA are in the first week of July 2007. For granted patents from KR, the first available publication date is February 1, 2007.

In addition, patents issued by the Hungarian Patent Office (HU) to non-residents are now included in CA/CAplus.

For additional information, see Patent Coverage in Chemical Abstracts at [www.cas.org](http://www.cas.org).

### **Enhanced with CAS indexing in pre-1907 records**

Subject and substance indexing has been added to more than 11,500 pre-1907 records in CA/CAplus. Records included in this enhancement represent original articles and article and patent abstracts from the following journals:

- *Journal of the American Chemical Society*
- *Journal of Physical Chemistry*
- *Journal of the Chemical Society, Transactions*
- *Journal of the Chemical Society, Abstracts*

Many of the U.S. patent abstract records have been replaced with patent records that include more extensive bibliographic and abstract information. CAS indexing based on the patent abstract from the original CA/CAplus record is included in these records.

Additional indexing of pre-1907 records will follow in the coming months.

### **Enhanced with French and German abstracts**

French- and German-language abstracts in basic patents from the European Patent Office (EPO) are now included in CAplus. These abstracts are only included when an English-language abstract is not available.

In patents that are indexed by CAS, French- and German-language abstracts are replaced by English versions shortly after the record is added to CAplus. French- and German-language abstracts are searchable in the Basic Index (BI) in their respective languages until replaced by the English versions. Records are added to CA only after indexing and the addition of English-language abstracts is complete.

Patents with selectively covered International Patent Classification (IPC) codes that are not indexed by CAS retain the original French- and German-language abstracts in CAplus. These records are not included in CA.

For additional information, see Patent Coverage in Chemical Abstracts at [www.cas.org](http://www.cas.org).

### **Patent coverage enhanced**

Patent coverage in CA/CAplus has been enhanced to now include:

- Complete International Patent Classification (IPC) reclassification data for the first half of 2007
- Patents from the Korean Intellectual Property Office (KR) through late-January 2007

In addition, bibliographic data and abstracts in patent applications from the Indian Office of the Controller General of Patents, Designs, and Trade Marks (IN) are now available in CAplus within 14 days of publication.

## FSTA

### **Enhanced with new thesaurus edition**

Food Science and Technology Abstracts® (FSTA) has been enhanced with the FSTA Thesaurus Eighth Edition. The Eighth edition contains 10,246 terms, including 700 new terms added since the last edition. All terms are carefully chosen keywords relating to the fields of food science, food technology, and food-related human and pet nutrition. Selection of terms is based on frequency of occurrence in FSTA.

## Full-text patent databases

### *Enhanced with predefined patent family display formats from INPADOCDB*

Predefined patent family display formats FAM and CFAM from INPADOCDB have been added to the full-text patent databases EPFULL, FRFULL, GBFULL, PATDPAFULL, and PCTFULL.

Additional fees are charged for displaying FAM or CFAM in these databases. For details on pricing, enter HELP COST at an arrow prompt (=>).

## REGISTRY

### *Enhanced with new experimental property tags*

New experimental property tags (ETAG) have been added to CAS REGISTRY<sup>SM</sup>. The tags are applied to new proteins and nucleic acids added to REGISTRY and refer to biochemistry-related data, including:

- Allele frequency and heterozygosity
- Disease-related mutations
- Drug targets
- Functional sites
- Genetic mapping
- Genetic polymorphisms
- Human disease-related mutations
- Non-human animal disease-related mutations
- Plant disease-related mutations
- Post-translational protein modifications
- Subcellular localization

For a list of all experimental property tags in REGISTRY, including definitions, see Searching for Property Data at [www.cas.org](http://www.cas.org).

## USGENE<sup>®</sup>

### *Now available on STN*

The United States Patent and Trademark Office (USPTO) Genetic Sequence Database (USGENE), produced by SequenceBase Corporation, is now available on STN. USGENE brings together USPTO sequence data with key elements of bibliographic and full-text data to provide a unified platform in which patent searchers can combine sequence data, date, and patent claims text searching.

Coverage includes all available peptide and nucleic acid sequences from published applications and issued patents of the USPTO from 1982 to the present. Each USGENE record represents a specific sequence found in a USPTO patent. USGENE currently includes more than 6 million sequence records, with updates occurring weekly and records typically available within 7 days of publication by the USPTO.

USGENE records include:

- Original patent title, abstract, and claims
- Patent assignee and full inventor names
- Publication, application, and parent case WIPO/PCT numbers and dates
- Organism name, sequence length, and SEQ ID number
- Feature tables for modifications and other features

USGENE provides three sequence searching methods:

- BLAST<sup>®</sup> for advanced similarity searching based on the National Center for Biotechnology Information (NCBI) BLAST algorithm
- GETSIM for advanced similarity searching based on the FASTA algorithm
- GETSEQ for simple fragment or motif sequence queries

Sequence data can be obtained with STN command line searching or the Sequence Search Assistant in STN<sup>®</sup> on the Web<sup>SM</sup>. For more precise answer sets, sequence search results can be combined with text searching of the Title (TI), Abstract (AB), and Exemplary Claims (ECLM) fields. Current-awareness alerts (SDIs), including sequence similarity alerts, are available weekly.

USGENE has been added to the ALLBIB, AUTHORS, BIOSCIENCE, CORPSOURCE, HPATENTS, MEDICINE, PATENTS, and PHARMACOLOGY database clusters on STN.

## USPATOLD

### Now available on STN

U.S. Patents Pre-1976 (USPATOLD) is now available on STN. USPATOLD includes more than 3.5 million records and covers the full text of patents issued from the United States Patent and Trademark Office (USPTO) from 1790-1975.

USPATOLD records represent original U.S. patent documents converted into electronic form through an optical character recognition (OCR) process. Due to limitations of this technology, some USPATOLD records may include misinterpreted characters or portions of the patent text may be missing. To address these limitations, approximately 500,000 USPATOLD records, representing patents also covered by CPlus, were supplemented with CAS data.

Search fields with CAS data:

- Title (TI)
- Patent Assignee (PA)
- Inventor (IN)

Display fields with CAS data:

- Title (TI.CA)
- Patent Assignee (PA.CA)
- Inventor (IN.CA)

Additional enhancements to USPATOLD include:

- CAS indexing, including CAS Registry Number® identifiers
- CAS Registry Number crossover searching
- Simultaneous left and right truncation (SLART) in the Basic Index (BI), Claims (CLM), Abstract (AB), and Title (TI) fields

While USPATOLD is a static database, it will be updated with changes to CAS indexing and International Patent Classification (IPC). USPATOLD is also a participating database in the STN Information Keep & Share Program.

For details on pricing, enter HELP COST at an arrow prompt (=>) in USPATOLD.

USPATOLD has been added to the BIOSCIENCE, CASRNS, CORPSOURCE, ENGINEERING, FULLTEXT, HPATENTS, MATERIALS, MEDICINE, METALS, PATENTS, PNTTEXT, POLYMERS, and USPATALL database clusters on STN.

## USPATFULL/USPAT2

### Enhanced with IPC reclassification

USPATFULL/USPAT2 now includes complete International Patent Classification (IPC) reclassification data for the first half of 2007. More than 4 million patents in USPATFULL and 480,000 patents in USPAT2 include reclassifications.

### STNews

STNews is written and produced cooperatively by Chemical Abstracts Service, FIZ Karlsruhe, and JAICI and printed in three separate editions.

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# Using the Company Name Thesaurus to track mergers and acquisitions in the pharmaceutical industry

**The pharmaceutical industry has seen an unprecedented number of mergers and acquisitions in recent years.**

The reasons for this trend are numerous. Under pressure to continue delivering double-digit investment returns, pharmaceutical companies search for new ways to grow revenue and strengthen pipelines. The rapid approach of patent expiration and skyrocketing drug development costs have spurred a rethinking of ways to supplement drug pipelines and strengthen positions in specific market segments. Alliance and acquisition are now considered to be alternative solutions, in addition to the traditional research and development model.

Knowledge of an organization's name(s) and those of its subsidiaries is essential when evaluating a potential acquisition target. A company's patents are key in determining valuation, but patents can be assigned to a subsidiary and not the parent company. Valuation of a company can, therefore, be difficult without knowing the names of an organization's subsidiaries. In addition, the names of organizations frequently change and different forms of a name may be used concurrently. Occasionally, names disappear altogether and are replaced by newly coined ones, as occurred in 1996 when Ciba-Geigy and Sandoz became Novartis. When you find yourself in need of these types of information, the Company Name Thesaurus search aid can help.

```
=> FIL HCAPLUS
=> S (GLAXO SMITHKLINE OR GLAXOSMITHKLINE OR GLAXO OR GSK)/CO
    21 GLAXO SMITHKLINE/CO
    1444 GLAXOSMITHKLINE/CO
    14 GLAXO/CO
    7 GSK/CO
L1 1486 (GLAXO SMITHKLINE OR GLAXOSMITHKLINE OR GLAXO OR GSK)/CO
```

*A search in HCAplus for some variations on GSK's name finds more than 1400 records.*

## Company Name Information

STN's specialized search aid, the Company Name Thesaurus, can help you find permutations of company names, identify subsidiaries, and understand a company's history. Available in the CA<sup>SM</sup>/CAplus<sup>SM</sup> family of databases, it can help you identify related forms of many major companies' names as well as other terms used to designate a particular organization. The following search examples show the impact the Company Name Thesaurus can have on your STN search results.

In 2000, the merger of Glaxo Wellcome PLC and SmithKlineBeecham (each resulting from earlier mergers) created GlaxoSmithKline. When you begin designing a search query to identify records for which GSK is the corporate source, a number of variations on the name may readily spring to mind: Glaxo SmithKline, GlaxoSmithKline, Glaxo, GSK. A search for references with all of these four names in the Company Name (CO) field in CAplus produces 1486 records.



### Did you know?

**STN AnaVist uses the Company Name Thesaurus to group company name variations, resulting in more valuable Key Organizations charts.**

## Search Tip

### EXPAND command

The EXPAND command in STN lists terms in a search index that are adjacent to the requested term. This provides additional terms that you may consider including in a search query.

By using EXPAND in the Company Name (CO) field, 288 variations for Glaxo SmithKline are found. If your search includes all of these variations you retrieve 4475 records – more than 3 times the number of records retrieved in the original search.

*Tip:* For queries that include many search terms, consider using the HCAplus database. Although the connection fee is higher than that charged for CPlus, there is no fee associated with individual search terms. So, you can search as many terms as you like, without incurring any search term charges.

**STN's specialized search aid, the Company Name Thesaurus, can help you find permutations of company names, identify subsidiaries, and understand a company's history.**

```
=> E GLAXO SMITHKLINE/CO 25
E#      FREQ.    AT      TERM
--      -
1        1          GLAXO SMITH KLINE PHARM/CO
E2       1          GLAXO SMITH KLINE S P A/CO
E3       21         2 --> GLAXO SMITHKLINE/CO
          .
          .
          .
E25      1          GLAXO WELLCOME CENTRE DE RECHERCHES/CO

=> E   E25
E26      7          2      GLAXO WELLCOME /CO
          .
          .
          .
E137     1444       394     GLAXOSMITHKLINE/CO
          .
          .
          .
E288     11         2      GLAXOWELLCOME SPA/CO

=> S E1-E288
L2       4475 ( "GLAXO SMITH KLINE PHARM"/CO ... OR "GLAXO
          SMITHKLINE PHARMACEUTICALS"/CO ... OR "GLAXO WELCOME"/CO ...
          OR "GLAXO WELLCOME CANADA"/CO OR ...)
```

*EXPAND identifies 288 terms adjacent to Glaxo SmithKline in the search index. Searching these terms produces more than 4400 results.*

### Subsidiaries and predecessors

An understanding of the history of a potential acquisition target is important when making a strategic business decision. This information can be difficult to obtain because a company's history of mergers and acquisitions is often complex and convoluted. The Company Name Thesaurus gives you (when available) a chronological sequence of some of the organizations involved in a company's formation, helping you to compile a historical timeline.

## Search Tip

The Company Name Thesaurus can give you a chronological sequence of some of the organizations involved in a company's formation.

=> E GLAXOSMITHKLINE/CO

E#	FREQUENCY	AT	TERM
E1	1		GLAXOSMITH KLINE ISTRAZIVOCKI CENTAR ZAGREB D O O/CO
E2	1		GLAXOSMITH KLINE PHARMACEUTICALS/CO
E3	1444	394 -->	GLAXOSMITHKLINE/CO

=> E E3+ALL

E1	0	CNUM CAS1001768/CO
E2	1444	--> GLAXOSMITHKLINE/CO

NOTES 1715: Allen & Hanburys Ltd. established  
1841: John K. Smith & Co. formed  
1842: Beecham Pills Ltd. founded  
1843: Cooper, McDougall & Robertson Ltd. founded  
1875: John K. Smith & Co. renamed Smith, Kline & Co.  
1880: Burroughs Wellcome & Co. established  
1891: Smith, Kline & Co. acquired French, Richards & Co.  
1902: Wellcome Tropical Research Laboratories established  
1919: Macleans Ltd. established  
1924: Wellcome Foundation Ltd. established  
1925: Wm. Cooper & Nephews, Ltd. and McDougall & Robertson Ltd. merged to form Cooper, McDougall & Robertson Ltd.  
1929: Smith, Kline & Co. renamed Smith Kline & French Laboratories  
1930: Glaxo Laboratories formed  
1936: Wellcome Trust founded  
1938: Beecham Pills Ltd. acquired Macleans Ltd.  
1945: Beecham Pills Ltd. renamed Beecham Group Ltd.  
1945: Recherche et Industrie Therapeutiques founded  
1948: Bio-Science Laboratories established  
1949: Beecham Group Ltd. acquired C.L. Bencard Ltd.  
1949: Beecham Group Ltd. acquired CL Bencard Ltd.  
1958: Glaxo Laboratories Ltd. acquired Allen & Hanburys Ltd.  
1959: Wellcome Trust acquired Cooper, McDougall & Robertson Ltd.  
1960: Smith, Kline & French Laboratories acquired Norden Laboratories  
1963: Smith, Kline & French Laboratories acquired Recherche et Industrie Therapeutiques (RIT)  
1969: Recherche et Industrie Therapeutiques renamed SmithKline-RIT  
1976: SmithKline Corp. acquired Penicillin-Gesellschaft Dauelsberg & Co.  
1978: Beecham Group PLC acquired Johann A. Wulfing AG  
1978: Glaxo Laboratories Ltd. acquired Meyer Laboratories Inc.  
1978: Glaxo Laboratories Ltd. renamed Glaxo Inc.  
1985: Bio-Science Laboratories renamed SmithKline Bio-Science Laboratories  
1985: SmithKline Beckman acquired Bio-Science Laboratories  
1986: Beecham Group Ltd. acquired Norcliff Thayer, Inc.  
1989: SmithKline Beckman and Beecham Group Ltd. merge to form SmithKline Beecham PLC  
1989: SmithKline Bio-Science Laboratories renamed SmithKline Beecham Clinical Laboratories  
1989: SmithKline BioScience Laboratories acquired International Clinical Laboratories, Inc.  
1989: SmithKline-RIT renamed SmithKline Beecham Biologicals  
1994: SmithKline Beecham PLC acquired Diversified Pharmaceutical Services, Inc.  
1995: Glaxo Inc. and Burroughs Wellcome & Co. merged to form Glaxo Wellcome  
1996: Block Drug Co., Inc. acquired full ownership of Kobayashi Block Co., Ltd.  
1996: SmithKline Beecham Healthcare Services formed  
1997: SmithKline Beecham PLC and Incyte Pharmaceuticals Inc. formed joint venture, diaDexus Inc.  
1998: Glaxo Wellcome acquired Poznanski Zaklady Farmaceutyczne Polfa  
2000: Glaxo Wellcome and SmithKline Beecham PLC merged to form GlaxoSmithKline  
2001: GlaxoSmithKline acquired Block Drug Co., Inc.

## Search Tip

In addition to being cited in the chronological timeline, the names of an organization's subsidiaries and predecessors are included in the Company Name Thesaurus and can be used as search terms. One of the results of using the EXPAND command for the name GlaxoSmithKline (E137) shows 394 terms associated with the entry "GlaxoSmithKline" in the Company Name Thesaurus. Some of those associated terms are shown in the example.

Displaying these associated terms shows organizations, including predecessors and subsidiaries, associated with GlaxoSmithKline. Many of these do not contain any portion of the original term, "GlaxoSmithKline." For example, Burroughs Wellcome and Glaxo Laboratories merged in 1995 to form GlaxoWellcome, which subsequently merged with SmithKline Beecham in 2000, forming the present day organization, GlaxoSmithKline. The acquisition of Norden Laboratories moved GSK into the animal health business. Block Drug Company, Inc. was acquired in 2001 and is now part of their consumer health division. You can use the Company Name Thesaurus to identify all of these companies as being associated with GlaxoSmithKline.

Searching all of the associated terms retrieves over 32,000 records. This dramatic increase over the two previous search examples demonstrates the value that the Company Name Thesaurus can add to your search strategy.

You can also reap the benefits of the Company Name Thesaurus in databases beyond the CA/CAPplus family. Terms retrieved with the Company Name Thesaurus can be searched in database clusters or other STN databases that do not include this search aid. For example, after expanding on the term of interest in the Company Name Thesaurus in a CA/CAPplus database, you can enter other database(s) and search the desired E-numbers in the Company Name (CO) field, if it is available, or the Corporate Source (CS) field.

*A total of 934 terms are associated with GlaxoSmithKline. Searching all of these terms returns more than 32,000 results.*

E#	FREQ.	AT	TERM
--	-----	--	----
E137	1444	394	GLAXOSMITHKLINE/CO
=> E E137+ALL			
E10	3	RT1	BEECHAM/CO
.			
E53	51	RT1	BLOCK DRUG CO INC/CO
.			
E57	11	RT1	BURROUGHS WELLCOME/CO
.			
E120	475	RT1	GLAXO LABORATORIES LTD/CO
E121	25	RT1	GLAXO LABS/CO
.			
E155	21	RT1	GLAXO SMITHKLINE/CO
.			
E227	325	RT1	GLAXOSMITHKLINE PHARMACEUTICALS/CO
.			
E241	26	RT1	GLAXOWELLCOME/CO
.			
E275	12	RT1	NORDEN LABORATORIES INC/CO
.			
E327	211	RT1	SMITHKLINE BEECHAM/CO
.			
E378	9	RT1	SMITHKLINE PHARMACEUTICALS/CO
.			
E388	143	RT1	WELLCOME RESEARCH LABORATORIES/CO
=> S GLAXOSMITHKLINE+ALL/CO			
L3	32170	GLAXOSMITHKLINE+ALL/CO	(394 TERMS)

## Conclusion

As the pharmaceutical industry evolves to include strategic alliances as ways to augment pipelines with innovative products and technologies, the trend of mergers and acquisitions is likely to continue. Using the Company Name Thesaurus search aid can increase your confidence that searches take into account variations of a company's name, its predecessors, and its subsidiaries.

## Additional resources

For more information about using the Company Name Thesaurus, see:

- CA/CAPplus Database Summary Sheets
- Articles about the Company Name Thesaurus in previous issues of *STNews* (January/February 2004 and July/August 2006), available at [www.cas.org](http://www.cas.org).

To determine the availability of thesauri in a specific database, enter HELP THESAURUS at an arrow prompt (=>) in that database.



## Creating full-text patent answer sets for evaluation with STN® Viewer™

With STN Express®, Version 8.2, you can take advantage of STN Viewer, the newest addition to the STN® family.

STN Viewer is a web-based workflow productivity tool for patent information users. It is designed for simple management and evaluation of full-text patent documents. Because your answer sets are created with STN Express, you can take advantage of all the power and convenience of STN.

You can use STN Express to:

1. Conduct your search in STN databases that contain patents. Full-text patent databases (e.g., EPFULL, FRFULL, GBFULL, PATDPFULL, PCTFULL, RDISCLOSURE, USPATFULL/USPAT2) and indexed databases with patent content (i.e., CPlus<sup>SM</sup>, Derwent World Patents Index<sup>®</sup>) can be used.
2. Use any of STN's powerful features, such as duplicate removal.
3. Export the answer set or a single record for evaluation with STN Viewer.

The screenshot shows a search result in STN Express. The search criteria are: => S NANO? AND FUEL CELL AND P/DT AND PY.B>2006 AND JP/PC AND US/PC. The results are displayed in a table with columns for L1, L2, and text. A context menu is open over the 'L2' link, with the following options: Analyze Plus..., Analyze..., Display..., Refine..., Save..., Save for R-group Analysis..., Save for STN AnaVist™..., Save Answers for SciFinder@..., Single File SDI..., Get Related Polymers..., Get Related Sequences..., Create CAS RN® and Role Report..., and Evaluate with STN Viewer. The 'Evaluate with STN Viewer' option is highlighted.

### Exporting an answer set

For optimal performance, using answer sets with less than 200 records is recommended.

To export your answer set from STN Express, select the **Evaluate with STN Viewer** option in one of the following ways:

- Click on the L-number answer set containing patent records.
- Click the **Discover!** button and highlight the L-number containing patent records.
- Use the Select Discover! Wizard window to select the L-number containing patent records.

## Exporting a single record

To export a single patent record from STN Express into STN Viewer:

1. Click on its patent, application, or priority application number in a displayed record.
2. Select the **Evaluate with STN Viewer** option.

```

L# ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2007:358843 CAPLUS Full-text
DN 146:359771
TI Nanocomposite, nanocomposite electrolyte membrane and fuel cell membrane
IN Choi, Yeong-Suk; Kim, Hae Kyung
PA Samsung SDI Co., Ltd., S. Korea
SO U.S. Pat. Appl. Publ., 24pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

```

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	<a href="#">US 2007072982</a>			<a href="#">US 2006-045334</a>	20060602 <--
	<a href="#">CN 1944537</a>			<a href="#">0105483</a>	20060531
	<a href="#">JP 200708478</a>			<a href="#">55441</a>	20060602
PRAI	<a href="#">KR 2005-8902</a>				

=>

You have selected US 2007072982, which appears to be a patent number. If it is, you can choose one of the following options:

- Evaluate with STN Viewer**
- Get Patent from Chemport
- Get Legal Status
- Get English Language Equivalents
- Get Extended Patent Family Information

## Preparing answer sets for STN Viewer

When you select **Evaluate with STN Viewer**, the following time-saving steps are performed automatically:

- All patent numbers are extracted from the Patent Information (PI) field of the answer(s) from STN Express.
- The extracted patent numbers are searched in all of the STN full-text patent databases.
- The full-text patent records are sent to STN Viewer.

```

=>
Launching STN Viewer

33 records sent to STN Viewer

```

For example, we conducted a search in WPINDEX and CAPLUS, resulting in 23 patents. The software extracted all patent family members and searched them for availability in eight STN full-text databases:

- EPFULL – European Patents Full Text
- FRFULL – French Patents Full Text
- GBFULL – United Kingdom Patents Full Text

- PATDPAFULL – German Patents Full Text
- PCTFULL – WIPO/PCT Patents Full Text
- RDISCLOSURE – Research Disclosure
- USPATFULL – U.S. Patents Original Publications
- USPAT2 – U.S. Patents Latest Publications

As a result, 33 full-text records were retrieved and sent to STN Viewer.

**STN Viewer™**

Patent Queue ▲ Hide

Filter by: Labels ⊕ ⊖

All Records

[Refresh](#)

[Customize Patent Queue](#)

Records from STN Express with Discover! are initially placed in the patent queue. Records can be moved to projects where a variety of tools let you view, manage, and evaluate the records.

Select ▾ Apply Label ▾ Actions ▾ Sort by: Ascending Project Entry Date ▾ 33 records

<input type="checkbox"/>	☆☆☆☆	<b>Cathode catalyst for fuel cell, and membrane-electrode assembly and fuel cell including same.</b> EP 1793443 A1 EPFULL	
<input type="checkbox"/>	☆☆☆☆	<b>Polymer electrolyte membrane for fuel cell and fuel cell system including the same.</b> EP 1796198 A2 EPFULL	
<input type="checkbox"/>	☆☆☆☆	<b>Catalyst for Cathode of Fuel Cell, and Membrane-Electrode Assembly for Fuel Cell.</b> EP 1772916 A2 EPFULL	
<input type="checkbox"/>	☆☆☆☆	<b>Fuel cell.</b> EP 1772921 A2 EPFULL	
<input type="checkbox"/>	☆☆☆☆	<b>An electrode for a fuel cell.</b> EP 1753057 A1 EPFULL	

## Viewing answers in STN Viewer

Once records are sent, STN Viewer launches in a web browser and you are asked to enter your STN login ID and password.

The Patent Queue within STN Viewer automatically populates with the full-text patent records. If your answer set is relatively large, the Patent Queue will populate in batches.

Although our initial search in WPINDEX and CAplus retrieved only patents issued or applied for in Japan and the U.S., all patent family equivalents were searched. Therefore, the results include documents from additional patent offices, such as the European Patent Office (EPFULL).

## Additional resources

For more information about STN Express, Version 8.2, visit [www.cas.org](http://www.cas.org).

For more information about STN Viewer, see the Feature and STN Viewpoint articles in this issue of *STNews*. Also, please visit [www.cas.org](http://www.cas.org) and watch for additional articles in future issues of *STNews*.

# STN Viewer™

## Using the highlighting feature to speed the patent evaluation process

*With the introduction of STN® Viewer™, we are also introducing the STN Viewpoint column. This regular column will focus on tools available in STN Viewer as well as applications for managing and evaluating patents.*

In this article, we show how you can speed the process of evaluating patents by highlighting significant terms or word segments in a patent document.

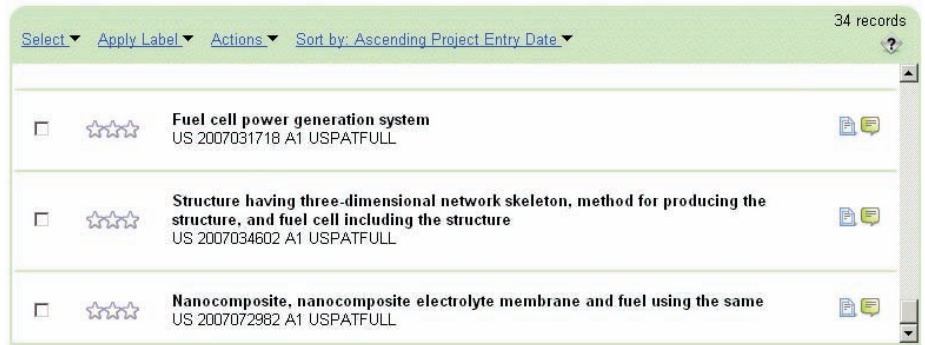
Customers who have tried STN Viewer have said that the highlighting features are “absolutely super” and that STN Viewer “offers unsurpassed truncation capabilities.”

With STN Viewer, you can:

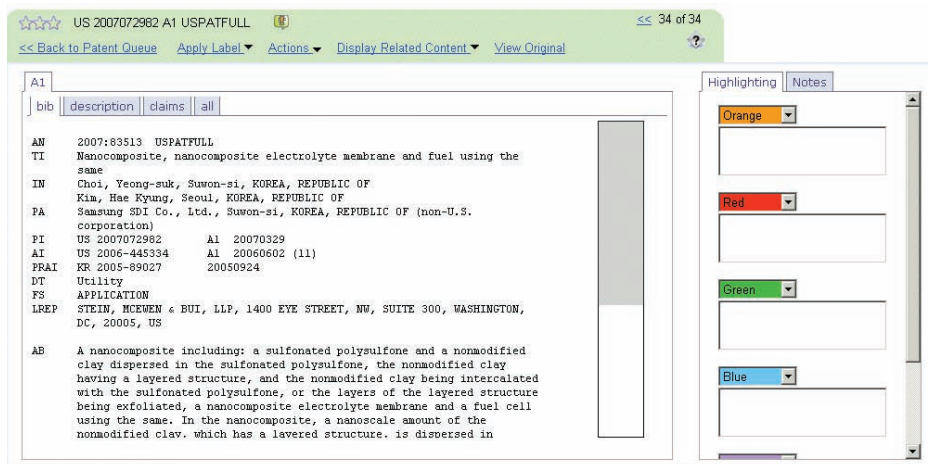
- Easily highlight any significant terms in the full text of patents, even internal segments of words with variable characters
- Quickly navigate to the patent sections with the highest densities of relevant terms
- Save your personal notes along with a specific patent document

### Highlighting terms in patent documents

1. Within the Patent Queue or a project, click the title of a patent of interest to view the full text.



The record opens with the **bib** tab displaying bibliographic information and the abstract, if available in the database. Notice that the **description**, **claims**, and **all** tabs allow you to view additional sections of the patent document.



- Use the **Highlighting** tab at the right to enter terms of interest.

The STN Viewer highlighting feature lets you:

- Highlight multiple terms in the same color by separating the terms with commas or semicolons
- Use truncation or character masking

- Click **Apply** when you are finished entering the terms.

Your terms become highlighted in the patent document.

Highlighting
Notes

Orange

Red

Green

Blue

Purple

Overlapping Selections

?
Apply
Reset

Symbol	Use
? or *	Any number of characters to the right, left, or within a term
#	One or zero characters to the right, left, or within a term (multiple # symbols may be used)
!	One character to the right, left, or within a term (multiple ! symbols may be used)
%	One or more numeric characters

## Navigating through a patent document

The Highlighting Map, located along the right side of the display area, shows the relative density and position of the highlighted terms in the displayed section of the patent document.

In this example, the top of the Highlighting Map represents the beginning of the **bib** display and the bottom of the Highlighting Map represents the end of the **bib** display.

You can use the Highlighting Map to navigate within the displayed section of the patent document. Click on the portion of the Highlighting Map where you would like to reposition the scroll bar, or drag the scroll bar to reposition it.

Highlighting Map

A1
bib | description | claims | all

```

AN      2007:83513  USPATFULL
TI      Nanocomposite, nanocomposite electrolyte membrane and fuel using the
        same
IN      Choi, Yeong-suk, Suwon-si, KOREA, REPUBLIC OF
        Kim, Hae Kyung, Seoul, KOREA, REPUBLIC OF
PA      Samsung SDI Co., Ltd., Suwon-si, KOREA, REPUBLIC OF (non-U.S.
        corporation)
PI      US 2007072982      A1 20070329
AI      US 2006-445334      A1 20060602 (11)
PRAI    KR 2005-89027      20050924
DT      Utility
FS      APPLICATION
LREP    STEIN, MCEWEN & BUI, LLP, 1400 EYE STREET, NW, SUITE 300, WASHINGTON,
        DC, 20005, US

AB A nanocomposite including: a sulfonated polysulfone and a nonmodified
        clay dispersed in the sulfonated polysulfone, the nonmodified clay
        being intercalated with a layered structure, and the nonmodified clay
        being intercalated with the sulfonated polysulfone, or the layers of
        the layered structure being exfoliated, a nanocomposite electrolyte
        membrane and a fuel cell using the same. In the nanocomposite, a
        nanoscale amount of the nonmodified clay, which has a layered
        structure, is dispersed in sulfonated polysulfone having excellent
        ionic conductivity. Thus, the nanocomposite has excellent ionic
        conductivity and mechanical properties. The nanocomposite
        electrolyte membrane formed using this nanocomposite has an
        improved ability to suppress permeation of polar organic fuels,
        such as methanol, while maintaining appropriate ionic conductivity.
        In addition, the fuel cell with the nanocomposite electrolyte
        membrane can effectively prevent crossover of methanol used as a
        fuel, thereby providing improved working efficiency and an extended
    
```

Click another tab, e.g., **claims**, to view additional sections of the full text.

The terms are also highlighted in this section of the patent document, and the Highlighting Map shows the relative density and position of the highlighted terms in this section.

The screenshot shows a patent document with the following text:

CLM What is claimed is:

1. A nanocomposite comprising: a sulfonated polysulfone; and a nonmodified clay dispersed in the sulfonated polysulfone, the nonmodified clay having a layered structure, and the nonmodified clay being intercalated with the sulfonated polysulfone, or the layers of the layered structure being exfoliated.
2. The nanocomposite of claim 1, wherein the sulfonated polysulfone is represented by formula 1 below. ##STR7## where, R.sub.1 is the same or different and is an C1-C1 alkyl group, a C2-C10 alkenyl group, a phenyl group or a nitro group, p is an integer of 0-4, X is --C(CF.sub.3).sub.2-- or --C(CH.sub.3).sub.2-- or --P(.dbd.O)Y--(Y' is H or C.sub.6H.sub.5), M is Na, K, or H, m is 0.1-10, n is 0.1-10, and k is 5-500.
3. The nanocomposite of claim 2, wherein the sulfonated polysulfone is represented by formula 2 below. ##STR8## where, m is 0.1-4, n is 0.1-4, and k is 5-500.
4. The nanocomposite of claim 1, wherein both end portions of the sulfonated polysulfone are end-capped by a clay modifier to provide substitutability with the clay.
5. The nanocomposite of claim 1, wherein the clay modifier is selected from the group consisting of: 2-acetamidophenol, 3-acetamidophenol, 2,6-di-tert-butyl-4-methylphenol, 3-ethylphenol, 2-amino-4-chlorophenol, 5-amino-2,4-dichloro-3-methylphenol, 4-amino-3-methylphenol, 2-amino-3-nitrophenol, 3-aminophenol, 2-sec-butylphenol, 3-aminophenol, 3-diethylaminophenol, 4,4'-sulfonyldiphenol, 2-methyl-3-nitrophenyl, 2-tert-butylphenol, 2-tert-butylphenol, 2-tert-butylphenol.

On the right side, there is a vertical Highlighting Map consisting of a series of colored bars (orange, green, red) representing the density and position of highlighted terms in the text.

## Saving notes with a patent record

While you are exploring and evaluating, you can save comments along with a specific patent document. This feature is helpful for making notes for yourself or those with whom you might share a project.

To save notes about a patent:

1. Click the **Notes** tab (located next to the **Highlighting** tab).
2. Enter and format your text.
3. Click **Save**.

The screenshot shows the Notes tab in the STN Viewpoint interface. It features a text entry field with the following text:

Appears to be highly relevant - please examine the original.

Below the text entry field is a **Save** button.

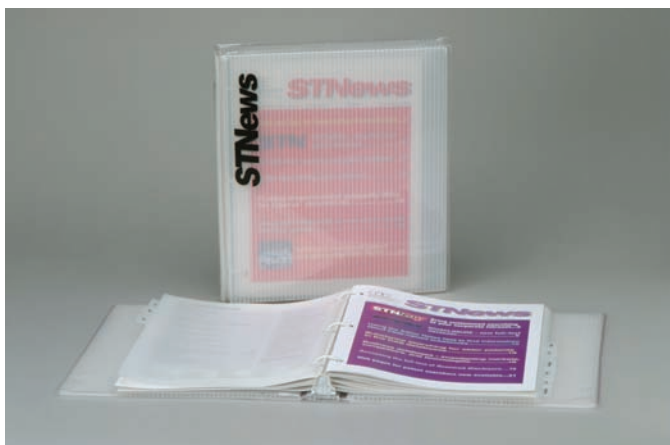
## Additional resources

This article discusses just a few ways that STN Viewer can assist you with managing and evaluating patents.

For an overview of STN Viewer's capabilities, see the Feature article in this issue of *STNews*. For information about creating an answer set for STN Viewer, see the STN Expressway article in this issue of *STNews*. Please watch for future *STNews* articles that will highlight additional features in STN Viewer.

For more information about STN Viewer, you can also visit [www.cas.org](http://www.cas.org).

## STNews binders available



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To request your free binder, contact CAS Customer Care at [help@cas.org](mailto:help@cas.org). Be sure to include your name and complete address with your request.

## STNewslines – did you sign up?

STNewslines, our electronic newsletter, is published every month. Are you receiving it?

You are not automatically signed up to receive STNewslines just because you receive *STNews*. We need your e-mail address to send it to you.

To receive the latest news about STN by e-mail, visit [www.cas.org](http://www.cas.org).

Or, complete this form and fax it to: *STNews* Editor, 614-447-3837.

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COUNTRY



## STN® AnaVist™, Version 2.0, now available with Derwent World Patents Index®

STN AnaVist, Version 2.0, is the only platform that permits analysis of both CAplus<sup>SM</sup> and Derwent World Patents Index<sup>®</sup> (DWPI<sup>SM</sup>), with content processed by STN<sup>®</sup> for optimal visualization.

In addition, with Version 2.0, you can:

- **Examine the Research Landscape from your point-of-view** – take advantage of new clustering fields, including Technology Indicators, Exemplary/First Claim, All Claims, and International Patent Classification (IPC) Codes, and customize your visualization using combinations of text fields
- **Gain a more complete understanding of your data** – create a variety of new bar charts based on Derwent Class, Derwent Manual Codes, Labels, and Patent Country Codes/Kind Codes
- **Perform comparative analysis with ease** – use new document highlighting features, and up to eight highlighting colors at once, to compare multiple data sets
- **Enhance your document management** – create new custom labels and apply them at any time to individual documents or document sets
- **Pinpoint the research of your competitors and customers** – enhance your view of the Research Landscape with new 2D displays with white or black backgrounds

To start using the new features:

1. Create a document set for visualization with the precise searching capabilities of STN Express<sup>®</sup>, Version 8.2.
2. Import your document set into STN AnaVist, Version 2.0, and click **Visualize...**

If you have an STN login ID and password, download STN AnaVist and STN Express software for free via the STN Software License and Download web site (<https://casweb.cas.org/stnexpress/html/english/login.html>). To obtain the software on CD-ROM, visit the Products & Services web pages for STN AnaVist and STN Express at [www.cas.org](http://www.cas.org).

## 2007 STN® instructor-led seminars

### Burlington, MA

10/23	9:00 a.m.-4:00 p.m.	Structure Searching in CAS REGISTRY <sup>SM</sup>
10/24	9:00 a.m.-12:00 p.m.	Markush Searching in the Patent Literature
10/24	1:00 p.m.-4:00 p.m.	Advanced Subject Search Techniques in CAplus <sup>SM</sup>
10/25	9:00 a.m.-12:00 p.m.	Exploring STN® AnaVist™, Version 2.0

### Philadelphia, PA

10/30	9:00 a.m.-4:00 p.m.	Structure Searching in CAS REGISTRY <sup>SM</sup>
10/31	9:00 a.m.-12:00 p.m.	Markush Searching in the Patent Literature
10/31	1:00 p.m.-4:00 p.m.	Advanced Subject Search Techniques in CAplus
11/1	9:00 a.m.-4:00 p.m.	STN User Update

### Stamford, CT

11/14	9:00 a.m.-4:00 p.m.	STN User Update
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### Montreal, QC

11/16	9:00 a.m.-4:00 p.m.	STN User Update
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All STN instructor-led seminars in North America are free, but registration is required.

For descriptions or to register, visit [www.cas.org](http://www.cas.org).

## 2007 CAS e-Seminars

10/30	1:00-2:00 p.m.	STN: Improving Searches by Including Patent Classification Codes
11/8	9:00-10:00 a.m.	STN: Improving Searches by Including Patent Classification Codes (rebroadcast)
11/27	1:00-2:00 p.m.	STN Case Study – Finding Petroleum/Petrochemical Information
12/13	9:00-10:00 a.m.	STN Case Study – Finding Petroleum/Petrochemical Information (rebroadcast)
12/13	1:00-2:30 p.m.	STN Continuing Education – STN: What's New?
12/18	1:00-2:00 p.m.	STN Case Study – Approaches for Finding Biotech Prior Art
1/10	9:00-10:00 a.m.	STN Case Study – Approaches for Finding Biotech Prior Art (rebroadcast)

All times are U.S. Eastern Time.

For a description or to register, visit <https://casevents.webex.com/>.

For a complete list of previously recorded e-Seminars and tutorials, select **STN e-Seminars > Recorded e-Seminars**. Topics include:

- STN® AnaVist™
- STN Express®
- Structure Techniques
- Patent Searching
- and more

## 2007 CAS Trade Shows

### EPO Patent Information Conference (European Patent Office)

Riga, Latvia  
October 16-18

### AIPLA (American Intellectual Property Law Association)

Washington, DC  
October 18-20

### ICIC 2007

Barcelona, Spain  
October 21-24

### SERM (ACS Southeast Regional Meeting)

Greenville, South Carolina  
October 24-27

### SWRM (ACS Southwest Regional Meeting)

Lubbock, Texas  
November 4-7

### BioOhio

Dublin, Ohio  
November 12-13

### Online Information

London, England  
December 4-6



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<b>CAS web site:</b>	<a href="http://www.cas.org">www.cas.org</a>

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## Included with this issue

USGENE and USPATOLD Database Summary Sheets

*In case you missed it:*

## STNews 2007 – Issue 1

- New CA index name rules in 2007
- F-Term thesaurus enhancements
- 2007 prices available
- CAS Registry Number crossover limit increased to 300,000 in multiple databases
- IPC version 2007.01 thesaurus available on STN

## STNews 2007 – Issue 2

- STN – Information solutions for drug discovery and development
- Identifying chiral drug candidates
- DWPI – Using proximity operators to design effective search strategies
- INPADOCDB – The enhanced INPADOC database
- STN Viewer – A new workflow productivity tool for patent information users
- STN Express software now free to all STN users

You can find it easily by searching the CAS web site at [www.cas.org](http://www.cas.org).

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Internet: [www.stn-international.de](http://www.stn-international.de)

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