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KEMICENTRUM



LUND  
UNIVERSITY

# Kemicentrum

A GUIDE TO KEMICENTRUM FOR EMPLOYEES, GUESTS AND STUDENTS





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# Kemicentrum at Lund University

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Lund University was founded in 1666 and has for a number of years been ranked among the world's top 100 universities. The University has 40 000 students and 7 400 staff based in Lund, Helsingborg and Malmö. We are united in our efforts to understand, explain and improve our world and the human condition.

## **KEMICENTRUM – SCANDINAVIA'S LARGEST CENTER FOR RESEARCH AND EDUCATION IN CHEMISTRY**

Kemicentrum is one of the largest centers for research and education in chemistry in Scandinavia with over 1000 people working and studying.

Kemicentrum was built during the years 1964-68 and 1984-85 with the intention to gather all research and education in chemistry in one place. The building Kemicentrum consists of five buildings and is designed by the famous architect Klas Anselm.

Today Kemicentrum comprises three departments within the Faculty of Engineering (LTH) and the Faculty of Science. The three departments have a close collaboration with each other.

Departments at Kemicentrum:

- Department of Chemical Engineering
- Department of Food Technology, Engineering and Nutrition
- Department of Chemistry

There are also a number of other activities operating at Kemicentrum, either connected to the University or private companies within the field of chemistry.

## **FACTS ABOUT KEMICENTRUM**

### **BUILDING YEAR:**

1964-1968 & 1984-1985

### **AREA:**

50 000 m<sup>2</sup>

### **ECONOMIC TURNOVER:**

462 MSEK

### **EMPLOYEES:**

Employees in total: 393

- professors 61
- researchers/teachers 116
- technical/administrative staff 77
- research students/PhD students 232

### **STUDENTS:**

1000 (each semester, 1000 students study programmes and courses arranged by the three departments at Kemicentrum).

### **LARGE INSTRUMENTATION:**

- NMR
- Electron microscopy
- Mass spectrometry
- X-ray diffraction
- SCALE

## World-class research and education in a creative, innovative and cross-border environment

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### RESEARCH

At Kemicentrum researchers from a variety of research fields and specializations within chemistry gather to understand, explain, and improve our world.

Some of our key research areas are food, pharmaceuticals, renewable resources, water and wastewater engineering, materials, environment and energy. The research at Kemicentrum ranges from very basic to applied research.

With across-the-border cooperation between different research groups, departments and faculties and with the industry, Kemicentrum not only contributes to high-quality research and education, but often also to innovations and applications that benefit society.

Kemicentrum's location in the heart of the exciting and research intense Öresund region, close to several major research and business parks and industries, for example the research facility MAX IV and the future ESS, provides optimal conditions for development, cooperation and innovation.

The research at Kemicentrum takes place in many different formations and research groups at our three departments.

### DEPARTMENT OF CHEMISTRY

Research for the benefit of a sustainable society. That is our goal and can easily summarize the great width of research at the Department of Chemistry in Lund. The research at the department ranges from basic to applied research. Strong focus areas are the environment, renewable resources and health.

### DEPARTMENT OF FOOD TECHNOLOGY, ENGINEERING AND NUTRITION

The Department of Food Technology, Engineering and Nutrition carries out research within most areas from raw material to the effects on the health of the consumers. Our research is characterized by an interdisciplinary focus on processing with broad aim of optimizing food products regarding both convenience and quality for the consumer.

### DEPARTMENT OF CHEMICAL ENGINEERING

The work carried out at the Department of Chemical Engineering is environmentally based, and directed towards a sustainable society. Research is based on resource-efficient techniques for sustainable development.

## EDUCATION

Kemicentrum provides undergraduate education and post graduate studies within all areas of chemistry, chemical engineering and food technology at Lund University. It is an international and unique study environment gathering all education in chemistry at Lund University within both the Faculty of Science and the Faculty of Engineering (LTH). We have state of the art laboratories and teachers that belong to international and national recognized research groups. Information about courses and programmes can be found at each department's webpage.

### KEMICENTRUM'S DEPARTMENT'S WEBSITES:

Department of Chemical Engineering:

[www.chemeng.lth.se](http://www.chemeng.lth.se)

Department of Food Technology, Engineering and Nutrition:

[www.food.lth.se](http://www.food.lth.se)

Department of Chemistry:

[www.kilu.lu.se](http://www.kilu.lu.se)



## Security & Environment, Health and Safety (EHS)

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This section describes some permanent installations aimed at improving your safety. It also provides information about Environment, Health and Safety (EHS) and basic emergency information and information about your obligations concerning safety regulations.

### ENTRANCES - CARDS AND SAFETY

During working hours (7.30 am - 4.30 pm) entrances A, B and E are open for public access. All other entrances are accessible with an entrance card.

Outside working hours, only entrances A, B and E are accessible with an entrance card. Beyond that, the building is divided into sections with locked doors, to which an entrance card with required access is needed to get in.

### HOW TO GET AN ENTRANCE CARD

To work or study at Kemicentrum you need an entrance card to get around. As a student you must be registered on a course at Kemicentrum or LTH to receive an entrance card.

Employees must be registered in LUCAT. If you are staying for a short period you can get a guest card at your department/division.

Entrance cards are made at LTH Studiecentrum. Don't forget to bring your identification card. Opening hours are found on: [www.lu.se/lukortet](http://www.lu.se/lukortet)

### SAFETY

The university buildings are popular targets for thieves. Therefore, be careful not to leave valuables lying around! We try also, however, to keep thieves out as far as possible. Thus, you are not allowed to "help" anybody get in through a locked door. It is strictly forbidden to lend your entrance card to someone else!

### ELEVATOR, TOILET, OXYGEN ALARM & SPECIAL FUME HOOD

All elevators are provided with alarm telephones connected to the Fire Department. If you get stuck in the elevator, press the button until you get an answer. Explain your situation, and help will arrive.

Some toilets have special equipment for disabled persons, including alarm buttons. When the button is pressed, it may take a while before assistance arrives.

Cold stores are also equipped with alarm buttons. In the room for filling liquid nitrogen there is an alarm for low oxygen level. If the oxygen level drops below 19 % the alarm will start to flash. Leave the room immediately and contact the caretakers.

The use, storage and handling of perchloric acid requires a special fume hood due to the potential for the substance to be violently reactive. When you want to use the laboratory where perchloric acid is used contact the Information desk. (telephone: 046-222 83 49, e-mail: [information@kc.lu.se](mailto:information@kc.lu.se)).

## FIRE ALARMS

All buildings are equipped with fire alarms. These are activated automatically, by smoke detectors, or manually, by pressing a button. (You should learn the location of the nearest button, as well as of fire protection equipment!) The fire alarms may be activated for other reasons than fire and smoke, e.g. imminent explosion risk, or accidental gas release. The alarm is a persistent series of short, loud bell rings.

When you hear the alarm, you must leave the building immediately! If it can be done without delay, take your clothes, car keys, etc, and shut down computers and other sensitive equipment (a fire often causes power failure). Do not return until so advised by the Fire Department personnel.

## OBLIGATIONS

Upon joining the department at Kemicentrum, you are required to:

- Carefully study and follow The General Safety Regulations, this can be found on the website [www.kc.lu.se/general-safety-regulations](http://www.kc.lu.se/general-safety-regulations)
- Upon reading The General Safety Regulations you must sign an affirmation agreeing to comply with this and any other safety requirements.
- Take part of relevant special instructions that are associated with the particular department's/division's laboratory, in which you will be working.
- Fill in the Check-In document.



The red box is to sound the alarm, the green for emergency shut of gas.

## IN CASE OF EMERGENCY

1. Rescue injured individuals.
2. Contact ambulance / Fire Department / police. Always meet the emergency vehicles in order to give them more information and directions.
3. During office hours, contact the head of your department.
4. During non office hours contact Securitas. If the alarm goes off in your division, shut down any equipment, shut the doors, leave the building (don't use the elevator) and go to the nearest reassembly point. Make sure you know where this is.

## EMERGENCY TELEPHONE NUMBERS

Ambulance / Police / Fire Department: 112

Security (Securitas jour help desk): 046 - 222 07 00

Maintenance (Akademiska Hus jour): 046 - 31 13 10

Jörgen Nilsson (Head of Joint Services): 046 - 222 83 33

If you are calling from an internal phone dial 0 in order to secure an external line.

### SMS SERVICE

In emergency evacuation situations, we communicate through a SMS service. If you would like to sign up to this SMS service, please talk to your department's/division's administrator.

### REASSEMBLY POINTS

If the alarm goes off in your division, shut down any equipment, shut the doors, leave the building (don't use the elevator) and go to the nearest reassembly point (see map on page 9). Information about your division's specific reassembly point can be found on the website [www.kc.lu.se/general-safety-regulations/reassembly-points](http://www.kc.lu.se/general-safety-regulations/reassembly-points)

## Environment, Health and Safety (EHS) at Kemicentrum

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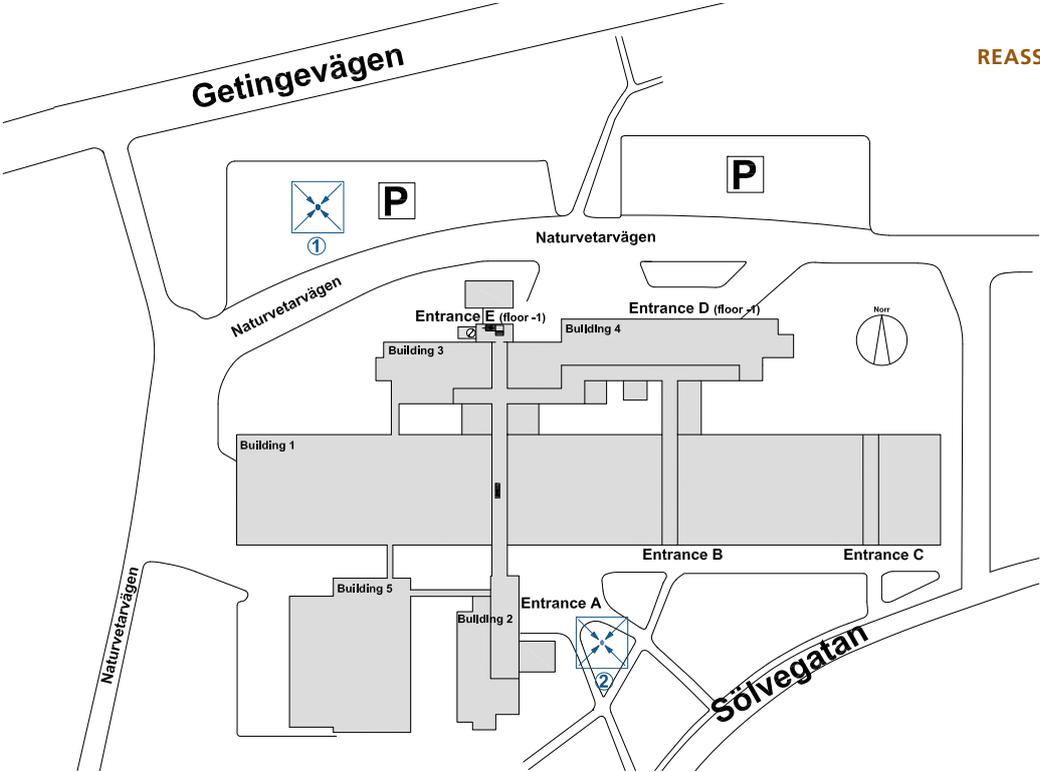
It is necessary to have a safe and healthy working environment at Kemicentrum. The Swedish government has, through its working conditions legislation, established rules for health, safety and well-being within the university. General aspects concerning work-, and external environment are dealt with by the committee for Environment, Health and Safety (EHS-committee) for Kemicentrum.

Kemicentrum's EHS-committee is responsible for the ongoing coordination and monitoring of work environment-, environment- and safety issues. Each head of department is responsible and must ensure a good work environment, and be able to handle matters that may concern educational situations, and not only regarding health and safety of the employees, but also concerning students.

Examples of tasks performed by the EHS-committee:

- To ensure that systematic work environment and environmental work is performed and meets the requirements of laws and regulations
- That follow-ups on occupational injuries and incidents are carried out
- To ensure that risk assessments and risk analyzes are done, regarding both daily and normal operations and in conjunction with construction projects, reorganization etc.

Kemicentrum also has a principal health and safety representative whose task is to coordinate the work of the safety representatives and to represent them in matters of common interest.



**REASSEMBLY POINTS**

Information about your division's specific reassembly point can be found on the website [www.kc.lu.se/general-safety-regulations/reassembly-points](http://www.kc.lu.se/general-safety-regulations/reassembly-points)

## Service functions and facilities at Kemicentrum

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### INFORMATION DESK

The information desk is located in building 1. The information desk can assist you with contacting staff at Kemicentrum, authorization and time of validity for entrance cards, booking of lecture halls and conference rooms, booking of technical equipment and questions regarding our guest lodgings.

### OPENING HOURS

8.00 am to 3.15 pm. Closed for lunch: 12.15 - 13.00.

### CONTACT INFORMATION

E-mail: [information@kc.lu.se](mailto:information@kc.lu.se)  
Telephone: 046-222 83 49

### LIBRARY

The Library of Chemistry and Chemical Engineering is located in building 1. The library provides employees and students with services regarding e.g course literature, articles, ejournals, ebooks, databases and subject guides. You can book a one to one session with one of the librarians if you need extra help or support with e.g research and finding literature.

### OPENING HOURS

9.00 am to 4.30 pm (Mon-Thu), 9.00 am to 3.30 pm (Fridays).  
At other times you can obtain access using your entrance card.

### CONTACT INFORMATION

E-mail: [bibliotek@kc.lu.se](mailto:bibliotek@kc.lu.se)  
Telephone: 046-222 83 39  
[www.bibliotek.kc.lu.se](http://www.bibliotek.kc.lu.se)

### PRINTSHOP

For larger print jobs and poster printing there is a print shop, Media-Tryck, located at -1 near entrance E.

### OPENING HOURS

Mondays 10 am to 4 pm,  
Tuesdays - Fridays 9 am to 4 pm.

### CONTACT INFORMATION

E-mail: [media-tryck.kc@service.lu.se](mailto:media-tryck.kc@service.lu.se)  
Telephone: 046-222 83 48

### GUEST ROOMS AND APARTMENTS

Kemicentrum has rooms and apartments available for visiting researchers and PhD students.

### CONTACT INFORMATION

E-mail: [kc\\_housing.dm@kc.lu.se](mailto:kc_housing.dm@kc.lu.se)  
Telephone: 046-222 81 94

## **OPENING HOURS AT THE SERVICE FUNCTIONS AT KEMICENTRUM**

### **INFORMATION DESK**

8.00 am – 3.15 pm  
(closed for lunch 12.15 – 13.00).

### **CARETAKERS' OFFICE**

7.30 am – 4 pm

### **LIBRARY**

9 am – 4.30 pm (Mon – Thu)  
9 am – 3.30 pm (Fridays)

### **CAFETERIA**

8.00 am – 3.30 pm (Mon-Thu)  
8.00 am – 2.30 pm (Fridays)

### **PRINT SHOP**

Mondays 10 am to 4 pm  
Tuesdays - Fridays 9 am - 4 pm  
(closed for lunch: 12.00 – 12.30)

## **TELEPHONES**

Telephones are connected to the University telephone exchange and have a five digit extension number (x xx xx) used for calls within the University. For external calls dial 046 - 22x xx xx or +46 46 22x xx xx (internationally). When using your university telephone, dial 0 in order to reach the outside network. Calls should be short and restricted to the local area.

## **INTERNET ACCESS**

Most public areas in Kemicentrum have wireless Internet. You use your LUCAT or StiL-id to log in. Instructions for use and more information are found on

[www ldc lu se/tjanster/natverk/tradlost-nat](http://www ldc lu se/tjanster/natverk/tradlost-nat)

## **POSTAL SERVICE**

Mail is collected and delivered once a day, around 10 am. Parcels are delivered once a day, around 12.30. Letters and parcels are collected from Kemicentrum daily at 3.00 pm.

## EATING AND DRINKING AT KEMICENTRUM

### CAFÉ / LUNCH RESTAURANT

In the center of building 1 you find a cafeteria, Ester Mat & Café. The cafeteria offers coffee and tea, soft drinks, fruit, sandwiches, candy and pastries. Lunch is served from 11.30. The cafeteria also offers catering. It is not allowed to bring your own food into the cafeteria or to use the seats without purchasing anything during lunch hours.

### OPENING HOURS AT ESTER MAT & CAFÉ

8.00 am to 3.30 pm (Mon-Thu),

8.00 am to 2.30 pm (Fridays)

### CONTACT INFORMATION

E-mail: [info@estermatocafe.se](mailto:info@estermatocafe.se)

Telephone: 046-222 83 46

[www.kc.lu.se/anstalld/service/cafe/](http://www.kc.lu.se/anstalld/service/cafe/)

### VENDING MACHINES

Vending machines for coffee and snacks are found in the hall on floor 0.

### LUNCH ROOMS

Students have their own lunch room on floor 0. This room is equipped with microwaves, refrigerator and cleaning facilities. Employees usually have a lunch room available in their department. Please note that all eating and drinking in the laboratories is strictly forbidden!

## SUPPLY, DISPOSAL AND RECYCLING UNITS

Gas cylinders are ordered by the department/division purchaser. There is a possibility to store extra gas cylinders in the common stores that are located outside the Caretakers' office close to entrance E. Outside the Caretakers' office you will also find disposal units for chemical waste, hazardous waste, electrical waste.

On every floor there are recycling units for different types of waste. All employees have to bring their waste to these units. The recycling units are emptied once a day. In every lunch room there are recycling units for food waste, combustible waste plastic, metal and paper packing.

### CONTACT INFORMATION

Questions concerning gas:

E-mail: [Ann-Christin.Wikander@kc.lu.se](mailto:Ann-Christin.Wikander@kc.lu.se).

Telephone: 046-222 01 57, 0705-22 01 57

E-mail: [Tommy.Ljungdell@kc.lu.se](mailto:Tommy.Ljungdell@kc.lu.se).

Telephone: 046-222 83 38

Caretakers' office

E-mail: [vaktm@kc.lu.se](mailto:vaktm@kc.lu.se).

Telephone: 046-222 83 50

## Lecture halls, seminar-, conference-, study- and computer rooms

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### LECTURE HALLS, SEMINAR ROOMS & CONFERENCE ROOMS

Lecture halls, seminar rooms and Kemicentrum's conference rooms are all found in building 1. Find their exact location on the maps on page 14-15. Kemicentrum has three common conference/meeting rooms, available for booking for employees as well as student organisations.

The conference/meeting rooms are:

- The Svante Arrhenius room (meeting room)
- The Carl Wilhelm Scheele room (meeting room with basic video conference equipment)
- The Marie Curie room (conference room)

### BOOKING

Bookings of lecture halls and conference rooms are managed by the Information desk.

Lecture halls, conference rooms and seminar rooms should be in good order when you leave, i.e. blackboard cleared, lights out, windows closed, etc.

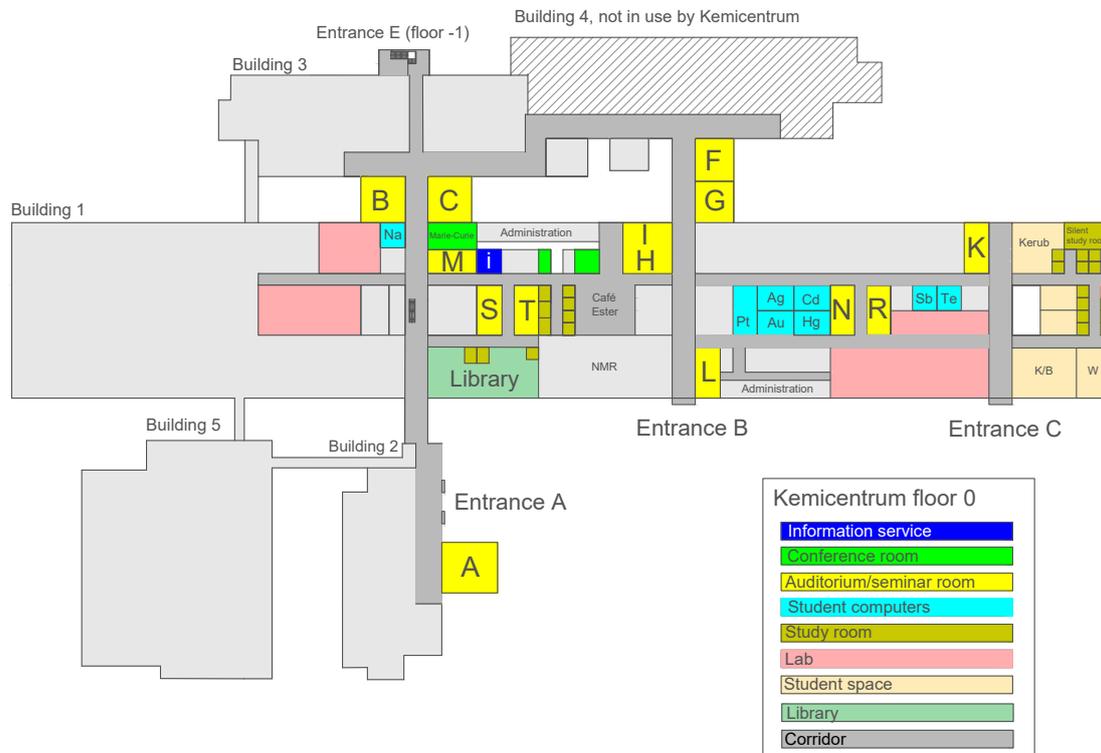
### AUDIOVISUAL EQUIPMENT

All lecture halls (not seminar rooms) have stationary projectors where you can connect your laptop. A projector is also available to borrow at the Information desk.

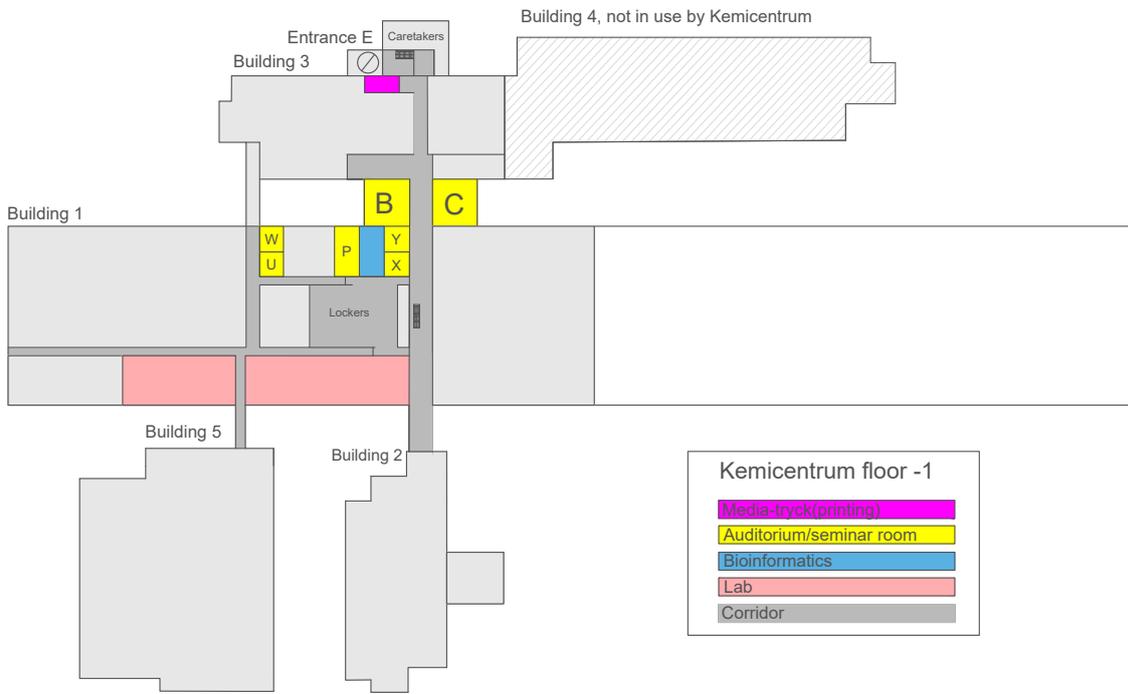
### STUDY ROOMS AND STUDENT COMPUTER ROOMS

Study rooms and student computer rooms are all found on floor 0 in building 1. Find their exact location on the map on page 14. Study places for individual and group work are found on floor +1 in building 1 (use the stairs or the elevator between entrance A and E).

## KEMICENTRUM FLOOR 0



**KEMICENTRUM FLOOR -1**



**Kemicentrum floor -1**

- Media-tryck(printing)
- Auditorium/seminar room
- Bioinformatics
- Lab
- Corridor



## Useful information and links

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### USEFUL WEBSITES

KEMICENTRUM'S WEBSITE:

[www.kc.lu.se](http://www.kc.lu.se)

KEMICENTRUM'S DEPARTMENTS' WEBSITES:

Department of Chemical Engineering:

[www.chemeng.lth.se](http://www.chemeng.lth.se)

Department of Food Technology, Engineering and Nutrition:

[www.food.lth.se](http://www.food.lth.se)

Department of Chemistry:

[www.kilu.lu.se](http://www.kilu.lu.se)

KEMICENTRUM'S LIBRARY:

[www.bibliotek.kc.lu.se](http://www.bibliotek.kc.lu.se)

SAFETY AND SECURITY:

[www.kc.lu.se/general-safety-regulations/](http://www.kc.lu.se/general-safety-regulations/)

LUND UNIVERSITY'S SWEDISH WEBSITE:

[www.lu.se](http://www.lu.se)

LUND UNIVERSITY'S INTERNATIONAL WEBSITE:

[www.lunduniversity.lu.se](http://www.lunduniversity.lu.se)

STAFF PAGES AT LUND UNIVERSITY:

[www.medarbetarwebben.lu.se](http://www.medarbetarwebben.lu.se)

[www.staff.lu.se](http://www.staff.lu.se)

TOURIST OFFICE IN LUND:

[www.lund.se](http://www.lund.se)

SWEDISH TOURIST INFORMATION:

[www.visitsweden.com](http://www.visitsweden.com)

### FOR INTERNATIONAL STUDENTS, RESEARCHERS & GUESTS

#### INTERNATIONAL DESK

At the International Desk students can receive help with issues concerning their stay at Lund University.

[www.lunduniversity.lu.se/current-students/the-international-desk](http://www.lunduniversity.lu.se/current-students/the-international-desk)

Follow the International Desk on Facebook to stay informed of events, activities, Swedish cultural traditions and things happening around Lund University and nearby cities.

[www.facebook.com/internationaldesk](http://www.facebook.com/internationaldesk)

## Contact

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### HEADS OF DEPARTMENT

#### Leif Bülow

Department of Chemistry

Email: leif.bulow@tbiokem.lth.se

Telephone: 046-222 95 94

#### Yvonne Granfeldt

Department of Food Technology, Engineering and Nutrition

Email: yvonne.granfeldt@food.lth.se

Telephone: 070-569 33 75

#### Mattias Alveteg

Department of Chemical Engineering

Email: prefekt@chemeng.lth.se

Telephone: 046-222 36 27

### HEAD OF ADMINISTRATION AND JOINT SERVICES

#### Jörgen Nilsson

E-mail: jorgen.nilsson@kc.lu.se

Telephone: 046-222 83 33

Contact information to some of Kemicentrum's key persons and administrative staff is found on

[www.kc.lu.se](http://www.kc.lu.se)

### POSTAL ADDRESS:

Kemicentrum

Box 124

SE-221 00 Lund, Sweden

### DELIVERY ADDRESS:

Kemicentrum

Naturvetarvägen 16

SE-223 62 Lund, Sweden

### INVOICE ADDRESS:

Kemicentrum Dept of xx

Reference person xx

Box 188

SE-221 00 Lund, Sweden

### VISITING ADDRESS:

Naturvetarvägen 14 / Sölvegatan 39 A-C

Lund

## HOW TO GET TO KEMICENTRUM

### BY TRAIN AND BUS

If you travel to Lund by train you will arrive at Lund central station (Lund C). At the north end of the train station you find the bus station where buses can take you to Kemicentrum. Plan your trip at Skånetrafiken's website

[www.skandetrafiken.se](http://www.skandetrafiken.se)

### BY CAR

If you go by car the visiting address is Naturvetarvägen 14. The closest entrance is the main entrance, entrance E. This is also where the parking area is situated.

### AIRPORTS

The airports closest to Lund is Malmö airport and Copenhagen airport in Denmark. Malmö airport is located approximately 30 km south-east of Lund. Copenhagen airport is located approximately 25 km south-west of Lund. From Malmö airport there are buses that takes you to Lund (bus stop: Lund C) in just 30 min. From Copenhagen airport you can easily get to Lund by train (Öresundstågen) in just 40 min.

## PARKING

### CAR

There are around 300 parking spots around Kemicentrum. If you come by car regularly, you can buy a parking permit, valid for one/two terms. For occasional parking, day tickets can be bought in the parking meter.

### BIKE

For bicycle parking use the special racks outside the entrances. It's strictly forbidden to bring the bicycle inside.



Lund University is located in southern Sweden, in one of Northern Europe's most dynamic regions: the Danish–Swedish Öresund region. Kemicentrum is located in the northern campus area of Lund.

# Welcome to Kemicentrum

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Welcome to Kemicentrum, this is a guide for you who are new at Kemicentrum. Whether you are a researcher, guest or student, we hope you will find useful information that can guide you during your time here. Kemicentrum is Scandinavia's largest center for research and education in chemistry. At Kemicentrum we all work together to understand, explain and improve our world. We hope you will join us!

## MORE INFORMATION

For information about Kemicentrum and information for employees, students, international researchers and guests visit our website [www.kc.lu.se](http://www.kc.lu.se).