



Application for beam time at ESRF

D. Juul Jensen
Risø National Laboratory



Procedure

- Write and submit your publication
- All applications are checked by beam line scientists
- All applications are peer-reviewed by external beam time review committees
- All applications are ranked and the top ones are granted beam time
- Successful applicants get all expenses for the ESRF experiment covered.



Before you write your application

- Consider your experiment – what is new and exciting and why is ESRF needed.
- If you are a newcomer to synchrotron experiments contact local people at the relevant beam line(s) for experimental advice.



www.esrf.fr




contact | phonebook | sitemap

advanced search

European Synchrotron Radiation Facility



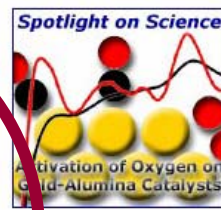
About Us | News & Events | Users & Science | X-ray Source | Infrastructure | Industry | Jobs

- ### General Information
- Company Info
 - Getting to the ESRF
 - What is a synchrotron?
 - Virtual Tour
 - Examples of Research
 - Press Room
 -  Découvrir l'ESRF
 - Links

- ### Information for Users
- Proposals Deadline:**
1st September 2006
- Long Term Projects:**
15th January 2007
- User Guide
 - Applying for beamtime
 - Proposal Submission (SMIS)
 - Safety
 - Users Office
 - CRG Office
 - Beamlines

A European cooperation in science. Eighteen nations work together to use the extremely bright beams of light produced by the ESRF's high-performance storage ring to study a remarkably wide range of materials, from biomolecules to nanomagnets, and ancient Egyptian cosmetics to metallic foams.

Spotlight on Science

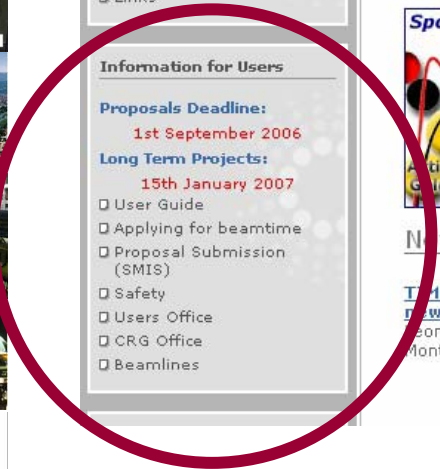


Activation of Oxygen on Gold-Alumina Catalysts: *In situ* High-energy Resolution
Gold catalysis has received considerable attention in recent years. Particles of gold that are unsupported or supported on oxidic carriers have been reported to be very active in various oxidation reactions. Examples are the oxidation of CO to CO₂, water-gas shift reaction ($\text{CO} + \text{H}_2\text{O} \rightarrow \text{CO}_2 + \text{H}_2$) and oxidation of hydrocarbons. The ori...

[more](#)

News

TIME OUT - LEONID DUBROVINSKY: "Studying the Earth can lead to the discovery of new materials"
Leonid DUBROVINSKY - geoscientist at the University of Bayreuth (Germany) and ESRF user By Montserrat Capellas. Photo credit: NASA/ESRF Jules...



http://www.esrf.fr/UsersAndScience/UserGuide/Applying/



ESRF European Synchrotron Radiation Facility

contact | phonebook | sitemap

search

advanced search

About Us News & Events Users & Science X-ray Source Infrastructure Industry Jobs

home » users and science

User Guide

Difficulties preparing/submitting your proposal?

Instructions on who to contact for help can be found on [this page](#).

Users' News

Safety Airport Form for MX Users

18/11/2005
After agreement with the airport security and the customs police of Lyon airport we have set in place a document which serves as accompagnyi...

New Review Committees

19/07/2005
In view of the very large number of proposals arriving over recent periods, and of emerging areas of research, we now have eleven review com...

NEW MX BAG Proposal

19/07/2005
From September 2005 a new BAG Proposal system is online: the "Experimental Details" form has been suppressed and the new electronic BAG Application...

Long Term Project Proposals

NEW PROCEDURE

08/10/2004
The ESRF has modified the procedure to apply for a Long-Term Project proposal. The next deadline for application is JANUARY 15th,...

Proposals Deadlines

03/03/2003
The next Deadline for the submission of Standard proposals and BAG proposals is : ...

[top of page](#)

last modified 06/07/2004

Copyright © 2005 ESRF Disclaimer | Feedback | Print this page Credits



Application form – Page 1.1

Application for Beam Time at ESRF

Please fill out relevant fields of this form, using **ASCII characters only**, and press the "Next" button to proceed.

Proposal title:

Keywords:

#1: #2: #3: #4:

Research area of your proposal:

- | | |
|---|--|
| <input type="checkbox"/> Chemistry | <input type="checkbox"/> Macromolecular crystallography |
| <input type="checkbox"/> Soft condensed matter and biological materials | <input type="checkbox"/> Medicine |
| <input type="checkbox"/> Crystal and Ordered Systems - Structures | <input type="checkbox"/> Disordered systems and Liquids |
| <input type="checkbox"/> Surfaces and interfaces | <input type="checkbox"/> Hard Condensed Matter - Electronic and Magnetic |
| <input type="checkbox"/> Applied Materials and Engineering | <input type="checkbox"/> Environmental and Cultural Heritage Matters |
| <input type="checkbox"/> Methods and instrumentation | |

Other:

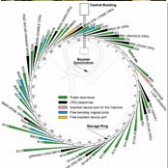
This proposal is:

- A new proposal A resubmission of: - A continuation of: -
- A proposal relating to research in collaboration with an industrial group

Relevant Reports:

Please specify your most recent experiment(s) at ESRF, for which you have submitted report(s), and which are relevant to this new proposal.

#1: - #2: - #3: -



Application form – Page 1.2

Main Proposer (to whom correspondence will be addressed):

Surname:	<input type="text"/>	Phone:	<input type="text"/>	<input type="button" value="Change Lab."/>
Forename:	<input type="text"/>	Fax:	<input type="text"/>	
Title:	<input type="text"/>	E-mail:	<input type="text"/>	

Co-proposers:

Please obtain the agreement of ESRF staff members before you add them to the list of principle investigators.

Beamline(s) requested:

and
or or

Number of shifts required:

(1 shift is 3 hours):

Preferred starting time:

Please select run: Feb/Mar
Unacceptable dates:

Beam requirements:

<input type="checkbox"/> Multi-bunch mode	<input type="checkbox"/> 16 bunch mode	<input type="checkbox"/> Single-bunch mode
<input type="checkbox"/> Circular polarization	<input type="checkbox"/> White beam	<input type="checkbox"/> Monochromatic beam
<input type="checkbox"/> Fixed energy [keV]: <input type="text"/>	<input type="checkbox"/> Tunable energy [keV] from: <input type="text"/> to: <input type="text"/>	
Energy resolution [meV]: <input type="text"/>	Spot size on sample [μm]: <input type="text"/>	
Other: <input type="text"/>		

Laboratory Support Facility:

[FaME38](#) [Chemistry Lab.](#)



Proposal description

- Aim of the experiment and scientific background
- Experimental method
- Results expected
- References



Application form – Page 1.3



Laboratory Support Facility:

[FaME38](#)

[Chemistry Lab.](#)

Sample environment:

Items supplied by the ESRF:

Furnace Magnet Cryostat Cryogenic gas stream Refrigerator

Laser Class: Wavelength [nm]:

High pressure Pressure range [GPa] from: to:

Fixed temperature Temperature range [K] from: to:

Detector system:

Other equipment:

Items not supplied by the ESRF (list all equipment that you will insert into the instrument):

Laser Class: Wavelength [nm]:

Please indicate requirements for special equipment or facilities:

Application form – Page 1.4

Sample description:

Substance and formula:

Single crystal Powder Polycrystalline Multilayer Liquid Gas

Average size [mm]: Volume [mm³]: Surface area [mm²]:

Mass [mg]: Matrix or solvent: Conc. of absorb. [mmol]:

Space group: Cell dimensions at T= K:

a= Å b= Å c= Å alpha= ° beta= ° gamma= °

Container (capillary, flat plate, type of pressure cell, etc.):

Extra information required for Macromolecular Crystallography:

Origin and expression system:

Aims of experiment: Native MAD SAD MR Ligand soaks Isomorphous replacement

Other:

Anomalous diffractor(s) if relevant:

Previously observed diffraction (resolution, X-ray source, exposure/°):



Application form – Page 1.5

Safety aspects:

Please attach the safety data sheet of the substance. If no safety data sheet is included, please give detailed information about the toxicity of chemical products and potential fire risks.

Is sample:

- Radioactive? Contaminant? Toxic? Corrosive? Oxidizing? Explosive? Inflammable?
 A biological hazard? Without any risk?

Is there any **danger** associated with the proposed sample, with any preparation at ESRF, or with sample equipment?

- Yes Uncertain No

If you have ticked any of the safety aspects checkboxes, you must give details of the associated risks in the box below:

Will you use **live animals/organisms** onsite for your experiment (**all kinds of animals are concerned**)?

If yes, once your experiment is accepted, you will have to fill in a special form available from the User Office Yes No

After the experiment, will the sample be: Removed by user? Stored at ESRF?

Experience with synchrotron radiation:

What are the **technical reasons** which make **ESRF** necessary for your experiment?

Why are other synchrotron radiation sources not appropriate?

Have you **previously** done an experiment using **synchrotron radiation**?

- Yes, at No

Have you already used **synchrotron radiation** for **this project**?

- Yes No

Have you used **synchrotron radiation** at the **ESRF**?

- Yes No



Application form – Page 1.6

Publications:

Please note below the references of all papers published during the past 18 months as a result of measurements which you have done at the ESRF (please avoid empty lines).

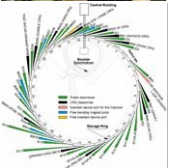
Back

Logout

Next

Click only once, please!

[Top of Page](#)



Important points to consider

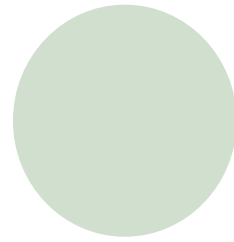
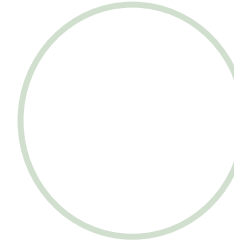
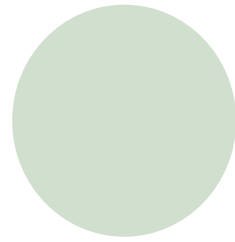
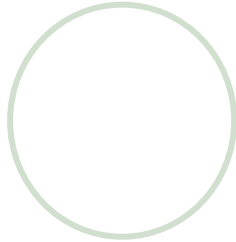
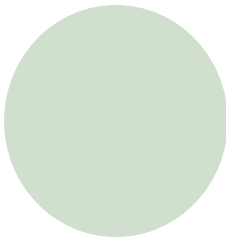
- The review panel might not be experts in your field.
- It should be very clear why your experiment is important and can lead to new scientifically important results (Aim – Results expected)
- It should be clear that you have considered carefully the experimental possibilities (and limitations) at the beamline.



Important points to consider (2)

- Figure(s) is/are often a good idea
- Choose good references that if possible also show that you are a key player/ active in this field.
- Do not be too ambitious (or not ambitious) the first time.
- Most reviewer committees get more than 100 applications in each application round.

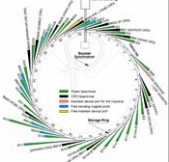




Proposal Round September-October 2004
(Scheduling period 2005/I): Grades

Grades received from OL, JYB, JACP, HPD, SF, PP, AS

Proposal	Proposer	Beamline	Shifts req.	Notes	Grade	St. Dev	
ME-1010		ID11	9	B	3.5	3,30	0,70
ME-1011		ID11	15	A2	4.3	4,23	0,25
ME-1012		ID11	12	B	3.9	3,90	0,40
ME-1013		ID11	6	A9	4.0	4,05	0,35
ME-1014		ID11, ID15 A	9	A3	4.2+	4,33	0,15
ME-1015		ID11, ID15 A	12	A1	4.4	4,38	0,10
ME-1016 (LT)		ID11, ID15 A, ID15 B	39	(LTP request) A1 ID15A	4.5	4,53	0,06
ME-1017		ID11, ID15 A, ID15 B	9	A5	4.1+	3,95	0,42
ME-1018		ID11, ID31	12	A9	4.0	4,03	0,15
ME-1019		ID11, ID31	9	A9	4.0	4,10	0,26
ME-1020		ID12	15	A1	4.1	4,10	0,20
ME-1021		ID13	9	A6	4.1	4,13	0,25
ME-1022		ID13	12	A6	4.1	4,23	0,36
ME-1023		ID13	12	A1	4.6	4,60	0,36
ME-1024		ID13	12	A3	4.2	4,15	0,21
ME-1025		ID13	15	A10	4.0	3,97	0,31
ME-1026		ID13	15	A6	4.1	4,13	0,06
ME-1027		ID13	6	A6	4.1	4,07	0,21
ME-1028		ID13	12	A5	4.2	4,20	0,00
ME-1029		ID13	12	A2	4.4	4,30	0,35
ME-1030		ID13	9	A4	4.2	4,20	0,26
ME-1031		ID13, ID22	12	B	3.8	3,80	0,44
ME-1032		ID15 A	9	A4	4.3	4,10	0,28



User Guide

- Contacts
- Users' News
- General Guidelines
- Applying for beamtime
 - Safety Requirements
 - Macromolecular Crystallography Beamtime
 - Long Term Projects General Information
 - Non-Contracting Countries
 - Electronic Submission Guidelines
 - Submit Proposal / Sample Sheet
 - Difficulties preparing/submitting your proposal?
 - Status of your Proposal
- Preparing your experiment
- Financial Assistance
- Travel & Accommodation
- Publications
- Experiment Reports
- CRG Liaison
- Electronic Utilities
- Users' Organisation

Applying for beamtime

Review Committees and areas of expertise

Next Review Committee Meetings: 27 and 28 APRIL 2006

1. Chemistry-related Studies: CH

The chemistry committee deals with proposals to study the structure, state, composition and reactions of substances, including chemical crystallography, characterisation of structural phase transitions, polymorphism, investigation of reaction pathways and catalysis.

2. Electronic and Magnetic Properties: HE

This committee addresses the electronic and magnetic properties of materials; structural properties aspects are included but only when related directly to magnetic or electronic properties. Techniques/methods include Compton and magnetic Compton scattering, Nuclear resonance scattering, Hyperfine spectroscopy, X-ray dichroism, X-ray magnetic scattering and diffraction, X-ray emission spectroscopy, inelastic X-ray scattering, photoemission, etc

3. Crystals and Ordered Systems, Structures: HS

This new committee will examine studies of the structures of ordered systems, and high-pressure studies.

4. Disordered systems and Liquids: HD

This second new committee will address studies of the structure and dynamics of disordered systems and liquids by elastic and inelastic scattering, as well as correlation spectroscopies.

5. Applied Materials and Engineering: MA

This newly-constituted panel will assess studies of industrial or engineering relevance.

6. Environmental and Cultural Heritage Matters: EC

The last of the new committees will deal with proposals related to environmental and earth sciences and cultural heritage materials and artefacts, primarily requiring 2D/3D X-ray imaging and in particular techniques such as X-ray fluorescence, micro-XAS infrared microspectroscopy, and X-ray tomography.

7. Macromolecular Crystallography: MX

The Macromolecular Crystallography Review Committee reviews proposals to study the structure determination of biological macromolecules using X-ray crystallography. Experimental methods include single or multi-wavelength anomalous dispersion (SAD/MAD) and molecular replacement using fixed wavelength X-rays. Beam-time applications for the study of macromolecular structures using the Laue technique are also considered.

8. Medicine: MD

This committee reviews proposals relating to bio-medical research requiring 2D-3D X-ray imaging, fluorescence, and small angle scattering. In addition it reviews radiobiology and radiotherapy-related proposals.

9. Soft Condensed Matter and Biological Materials: SC

Proposals dealing with soft matter, non-crystalline structural biology and the interdisciplinary area of nanoscience are reviewed by this committee. Topics include structure, equilibrium and non-equilibrium dynamics, and kinetics in the bulk and at interfaces. Experimental techniques include AXS, WAXS, micro-diffraction, XPCS, GISAXS, GIXD, USAXS, reflectivity, etc.

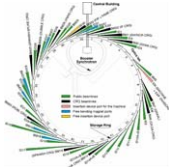
10. Surfaces and Interfaces: SI

This committee examines structural and dynamical studies of surfaces and interfaces using a variety of techniques, which comprise surface X-ray diffraction, X-ray Standing Waves, X-ray Photoelectron Spectroscopy, GISAXS, XCS, etc.

11. Methods and Instrumentation: MI

Experimental studies aiming at the further development of synchrotron radiation instrumentation, ranging from passive and active optical elements to detectors, experimental set-ups and advanced sample environment are reviewed by this Committee.

Proposals from other fields of science are also accepted.



ESRF REVIEW COMMITTEE MEETINGS

to be held on 25 and 26 October 2004

Programme

Monday 25 October

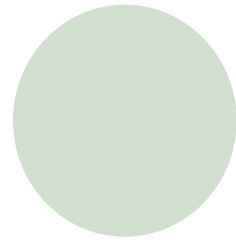
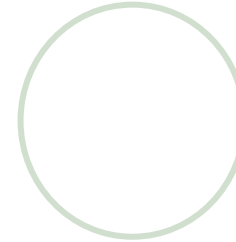
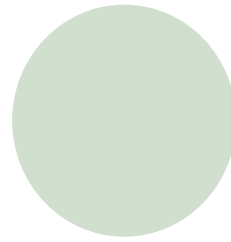
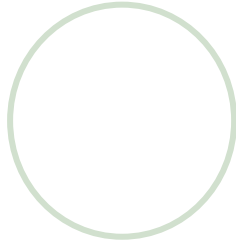
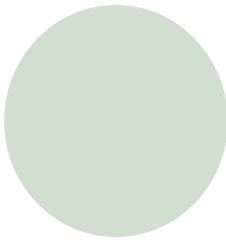
- 9.00 Discussion of proposals begins for Committees CH, HE, HS, MD, ME, MX, SC and SI:
- | | |
|---|------------------------------------|
| Chemistry (CH) | Control Room Meeting Room |
| Hard-Condensed Matter - Elec. & Magn. properties (HE) | EMBL, Room 9 |
| Hard-Condensed Matter - Structures (HS) | EMBL, Room 59 |
| Medicine (MD) | ESRF Central Building, Room 248a |
| Materials Engin. & Environmental Matters (ME) | ESRF Central Building, Room 337 |
| Macromolecular Crystallography (MX) | ESRF Central Building, Room 500 |
| Soft Condensed Matter (SC) | ESRF/ILL Common Building, Room 106 |
| Surfaces and Interfaces (SI) | Experimental Hall, Room 18.1.11 |
- 10.30 *Coffee - ESRF Central Building, mezzanine; others (HE, HS, SC) in meeting rooms*
- 12.00 *Lunch - self service at the ESRF/ILL joint Canteen, open until 13:26 hours (please wear your badge, or mention that you are a member of the ESRF committees). The separate dining room is reserved for review committee members.*
- 14.00 Discussion of proposals as follows:
- | | |
|---|------------------------------------|
| Chemistry (CH) | Control Room Meeting Room |
| Hard-Condensed Matter - Elec. & Magn. properties (HE) | EMBL, Room 9 |
| Hard-Condensed Matter - Structures (HS) | EMBL, Room 59 |
| Medicine (MD) | ESRF Central Building, Room 248a |
| Materials Engin. & Environmental Matters (ME) | ESRF Central Building, Room 337 |
| Macromolecular Crystallography (MX) | ESRF Central Building, Room 500 |
| Methods & Instrumentation (MI) | ESRF Central Building, Room 50 |
| Soft Condensed Matter (SC) | ESRF/ILL Common Building, Room 106 |
| Surfaces and Interfaces (SI) | Experimental Hall, Room 18.1.11 |
- 16.00 *Tea - ESRF Central Building, mezzanine; others (HE, HS, SC) in meeting rooms*
- 19.30 *Dinner. A bus will depart from the ESRF site for dinner.*

Tuesday 26 October

- 9.00 Committees continue discussions, as necessary.
- 10.30 *Coffee - ESRF Central Building, mezzanine; others (HE, HS, SC) in meeting rooms*
- 12.45 End of discussion of proposals.
- Lunch - self service at the joint Canteen. The separate dining room is reserved for review committee members.*
- 14.00 Final discussion and conclusions: Directors, Chairpersons, liaison scientists and R. Mason
ESRF Central Building, Room 500
- 15.15 End of Chairpersons' meeting.

End

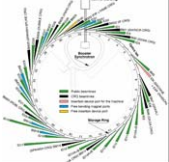




Proposal Round September-October 2004
(Scheduling period 2005/I): Grades

Grades received from OL, JYB, JACP, HPD, SF, PP, AS

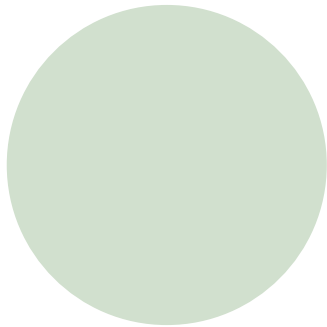
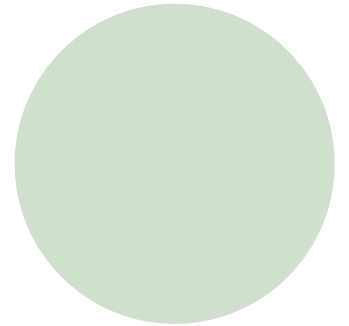
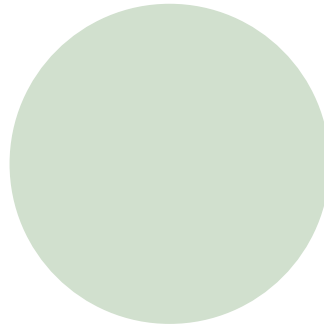
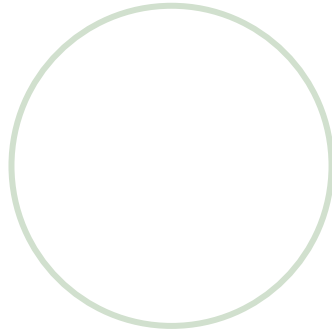
Proposal	Proposer	Beamline	Shifts req.	Notes	Grade	St. Dev	
ME-1010		ID11	9	B	3.5	3,30	0,70
ME-1011		ID11	15	A2	4.3	4,23	0,25
ME-1012		ID11	12	B	3.9	3,90	0,40
ME-1013		ID11	6	A9	4.0	4,05	0,35
ME-1014		ID11, ID15 A	9	A3	4.2+	4,33	0,15
ME-1015		ID11, ID15 A	12	A1	4.4	4,38	0,10
ME-1016 (LT)		ID11, ID15 A, ID15 B	39	(LTP request) A1 ID15A	4.5	4,53	0,06
ME-1017		ID11, ID15 A, ID15 B	9	A5	4.1+	3,95	0,42
ME-1018		ID11, ID31	12	A9	4.0	4,03	0,15
ME-1019		ID11, ID31	9	A9	4.0	4,10	0,26
ME-1020		ID12	15	A1	4.1	4,10	0,20
ME-1021		ID13	9	A6	4.1	4,13	0,25
ME-1022		ID13	12	A6	4.1	4,23	0,36
ME-1023		ID13	12	A1	4.6	4,60	0,36
ME-1024		ID13	12	A3	4.2	4,15	0,21
ME-1025		ID13	15	A10	4.0	3,97	0,31
ME-1026		ID13	15	A6	4.1	4,13	0,06
ME-1027		ID13	6	A6	4.1	4,07	0,21
ME-1028		ID13	12	A5	4.2	4,20	0,00
ME-1029		ID13	12	A2	4.4	4,30	0,35
ME-1030		ID13	9	A4	4.2	4,20	0,26
ME-1031		ID13, ID22	12	B	3.8	3,80	0,44
ME-1032		ID15 A	9	A4	4.3	4,10	0,28



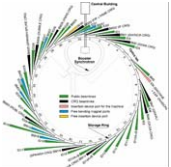
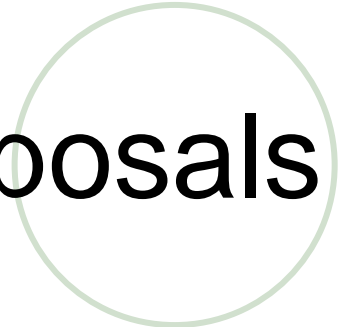
Final step

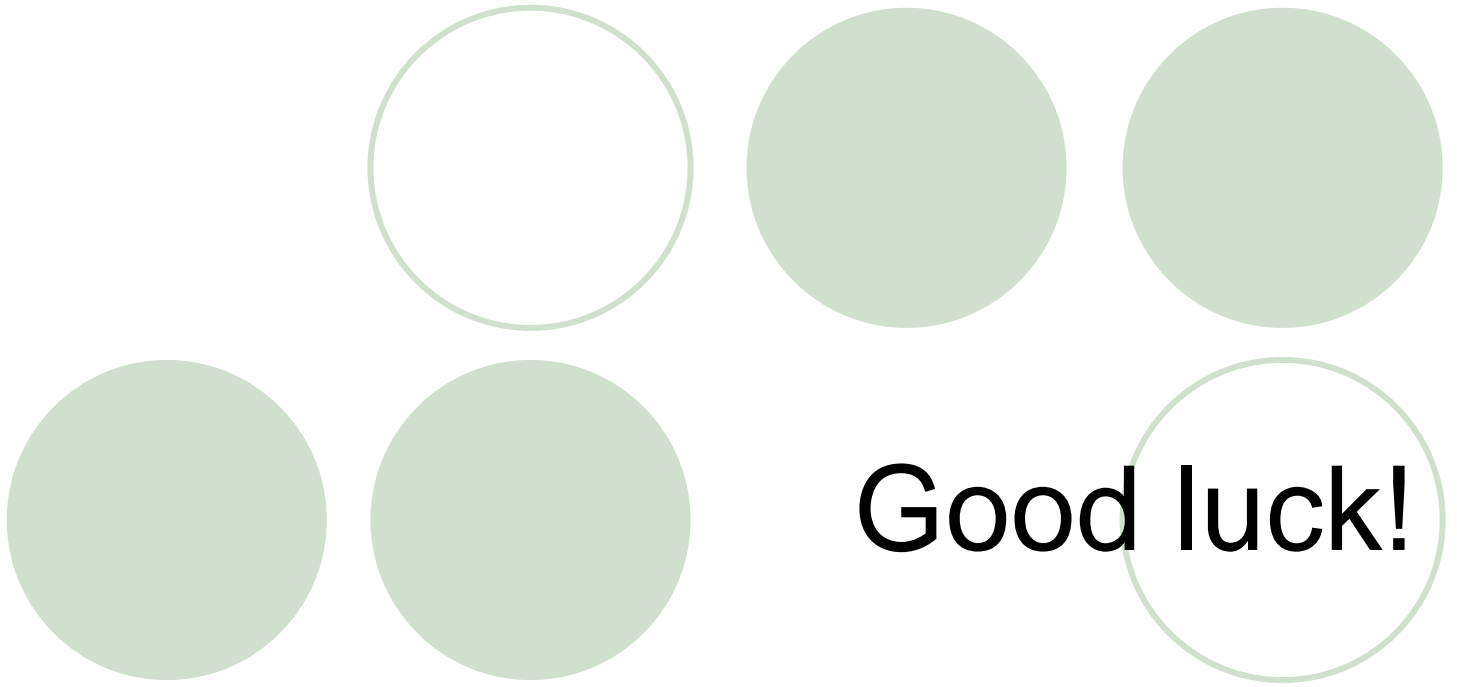
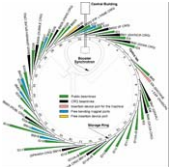
- Applicants are being informed on the result





Long time proposals





Good luck!

Ekstra billeder

