

# Hakone XVII



AUGUST 21ST – 25TH, 2022  
ROLDUC ABBEY, KERKRADE,  
THE NETHERLANDS.

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# 1 Introduction

HAKONE XVII will be held in the south of the Netherlands in the former Abbey Rolduc, August 21st – 25th, 2022. The biennial HAKONE symposium series started in Hakone (Japan) in 1987 and is devoted to the fundamentals and applications of non-thermal plasmas and their chemistry at elevated pressures.

## 1.1 Scope & Format

HAKONE brings together scientists and engineers from academia and industry working on high pressure and low temperature plasma chemistry. The symposium aims to connect more traditional subjects such as ozone synthesis, basic oxidants generation, water treatment and environmental protection to the emerging and innovative fields of biomedical applications, micro-plasmas and alternative materials.

## 1.2 Venue



HAKONE XVII will be held at the Rolduc abbey in Kerkrade, which is one of the most important religious monuments in the Netherlands. The abbey's rich history dates back more than 900 years. Rolduc is the largest abbey complex in the Benelux and one of the Dutch UNESCO Top 100 monuments. Rolduc abbey can be reached by public transport from Amsterdam Schiphol airport ( $\approx 3:30$  hrs), Düsseldorf airport ( $\approx 2:00$  hrs) and Maastricht airport ( $\approx 1:30$  hrs).

We will provide a shuttle bus between Herzogenrath railway station (Germany) and the conference venue, and possibly between Kerkrade railway station and the venue as well. We will likely start with this around 13:00 on Sunday. If you would like to use this then please let us know when and where you expect to arrive.

## WIFI

WIFI is available on an open network without requiring a password.

### **1.3 Conference Topics**

**T01** Fundamental problems of high pressure discharges

**T02** Modelling and diagnostics

**T03** Molecular synthesis and decomposition

**T04** Ozone generation and applications

**T05** Generation of radiation in high-pressure discharges

**T06** Depollution and environmental applications

**T07** Surface processing and technology (cleaning, coating, etching and modification, equipment)

**T08** Biological applications

**T09** Miscellaneous

### **1.4 Information for Presenters**

Orals are 20 minutes (16 min + 4 min questions), while invited presentation and the Ulrich Kogelschatz Lecture Award are 50 minutes (45 min + 5 min questions). Please upload your presentation to the central laptop well in advance of your scheduled presentation block.

Posterboards will be 1.25 meter high and 1.00 meter wide. Posters can be mounted on the poster boards inside the lecture hall for the entire symposium. Furthermore, all poster presenters are requested to submit a one-page slide latest on Sunday, Aug. 21st for the one-minute poster presentation introduction. Please submit a PDF, preferably in 16:9 aspect ratio.

## 2 Committees

### 2.1 Local Organizing Committee

- Sander Nijdam (chair), Eindhoven University of Technology
- Behnaz Bagheri, Eindhoven University of Technology
- Ute Ebert, Centre for Mathematics and Computer Science (CWI) Amsterdam
- Tom Huiskamp, Eindhoven University of Technology
- Gerrit Kroesen, Eindhoven University of Technology
- Gerard van Rooij, Maastricht University
- Ana Sobota, Eindhoven University of Technology

### 2.2 International Scientific Committee

- Mirko Černák (chair), Czech Republic
- Ronny Brandenburg, Germany
- Nicolas Naude, France
- Tony Herbert, Ireland
- Tomáš Hoder, Czech Republic
- Indrek Jõgi, Estonia
- Kirill V. Kozlov, Russia
- Štefan Matejčík, Slovakia
- Jerzy Mizeraczyk, Poland
- Naoki Osawa, Japan
- Cristina Paradisi, Italy
- Yi-Kang Pu, China
- Henryka D. Stryczewska, Poland
- Fumiyoshi Tochikubo, Japan

### 3 Sponsors

Hakone XVII is sponsored by the Dutch Research Council (NWO) and Plasma Matters B.V.



**Plasma  
Matters.**

## 4 Program

### 4.1 Program table

Sun, Aug 21	Mon, Aug 22	Tue, Aug 23	Wed, Aug 24	Thu, Aug 25
	08:00 Breakfast	08:00 Breakfast	08:00 Breakfast	Breakfast
	09:00 Opening	09:00 I02 - Koichi Sasaki	09:00 I04 - Deborah O'Connell	I05 - Xin Pei Lu
	09:10 Françoise Massines	09:50 C09 - Vlasta Štěpánová	09:50 C17 - Alex Destrieux	C29 - Yury Gorbanev
	10:00 C01 - Elizabeth Mercer	10:10 C10 - Julia Mrotzek	10:10 C18 - Anne Limburg	C30 - Ursel Fantz
	10:20 Coffee break	10:30 Coffee break	10:30 Coffee break	Coffee break
	10:50 C02 - Roman Přibyl	11:00 C11 - Kristian Wende	11:00 C19 - David Prokop	C31 - Mostafa Hassan
	11:10 C03 - Antoine Belinger	11:20 C12 - Mark Kushner	11:20 C20 - Siebe Dijcks	C32 - David Sawtell
	11:30 C04 - Fumiyoshi Tochiku	11:40 C13 - Jan Cech	11:40 Organ concert	C33 - Chiel Ton
	11:50 C05 - Corentin Bajon	12:00 C14 - Ravi Patel	12:00	Closing ceremony
	12:30 Lunch	12:30 Lunch	12:30 Lunch	Lunch
	14:00 Poster 1-slide presentation	14:00 C15 - Perla Trad	14:00 I03 - Luc Stafford	Bus to Eindhoven (optional)
	14:40 Poster session	14:20 C16 - Jeroen van Oorschot	14:50 C21 - Markus Becker	
		15:00 Excursion + banquet	15:10 C22 - Mohammad Hasar	Labtour Eindhoven (optional)
			15:30 Coffee break	
			16:00 C23 - Hans Höft	
			16:20 C24 - Hani Francisco	
	16:40 I01 - Judith Golda		16:40 C25 - Thijs van der Gaag	
	17:00 C06 - Naoki Osawa		17:00 C26 - Davide Del Cont-B	
	17:20 C07 - Thomas Orrière		17:20 C27 - Francisco Pontiga	
	17:40 C08 - Kazuki Watanabe		17:40 C28 - Lucia Kuthanová	
18:00 Formal registration	18:00 Free time		18:00 Free time	
	18:30 Dinner		18:30 Dinner	
19:00 Welcome reception			19:30 ISC-meeting	

Ulrich Kogelschatz Award Lecture

Invited lecture

Contributed lecture

### 4.2 Detailed program including social program

#### Sun, Aug 21

##### 18:00 - 20:00 Formal registration

Chance to register for the conference. Hotel rooms will be available starting from 15:00

##### 19:00 - 22:00 Welcome reception

A welcome reception is organized in the hotel bar ('De Verloren Zoon', 'The Lost Son') located in the cellar.

## Mon, Aug 22

### 08:00 - 09:00 Breakfast

In the large dining room ('Grote Eetzaal')

### 09:00 - 09:10 Opening

In the Aula Minor (building opposite to the reception).

### Session chair: Mirko Černák

#### 09:10 - 10:00 Ulrich Kogelschatz Lecture Award UKL: Françoise Massines T01

CNRS, France.

*Physics of diffuse DBDs and on line thin film treatment: History, recent developments and new challenges*

#### 10:00 - 10:20 Contributed C01: Elizabeth Mercer T01

University of Antwerp, Belgium.

*Effects of Post-Plasma Mixing in a CO<sub>2</sub> Microwave Plasma on Conversion and Energy Efficiency*

#### 10:20 - 10:50 Coffee break

Foyer + terrace

### Session chair: Ronny Brandenburg

#### 10:50 - 11:10 Contributed C02: Roman Přibyl T01

Masaryk University, Czech Republic.

*Alumina ceramic tapes doped by various dopants and their effect on properties of coplanar dielectric barrier discharge*

#### 11:10 - 11:30 Contributed C03: Antoine Belinger T01

LAPLACE, Université de Toulouse, France.

*Influence of the dielectric on a Diffuse Dielectric Barrier Discharge in air at atmospheric pressure*

#### 11:30 - 11:50 Contributed C04: Fumiyoshi Tochikubo T01

Tokyo Metropolitan University, Japan.

*Characteristics of Trichel Pulse Discharge from Taylor Cone with AC Superimposed DC Voltage*

#### 11:50 - 12:10 Contributed C05: Corentin Bajon T01

Laboratoire Plasmas et conversion d'énergie, France.

*Dielectric Barrier Discharge in CO<sub>2</sub>: electrical and optical characterization*

### 12:30 - 14:00 Lunch

Foyer + terrace

### 14:00 - 14:40 Poster 1-slide presentations

A quick introduction to all posters. All poster presenters are requested to submit a one-page slide latest on Sunday, Aug. 21st.

### 14:40 - 16:40 Poster session

Including some refreshments.

P01: Indrek Jõgi T08

University of Tartu, Estonia.

*Virus and aerosol removal by electrostatic precipitator*



- P02: **Kubra Ulucan-Altuntas** T06  
University of Padua, Italy.  
*Degradation of Perfluorooctanoic Acid (PFOA) in Water by Non-Thermal Plasma Enhanced by Boron-Doped Reduced Graphene Oxide*
- P03: **Sean Kelly** T06  
University of Antwerp, Belgium.  
*Microwave plasma-based conversion of methane and carbon dioxide*
- P04: **Francisco Pontiga** T06  
Universidad de Sevilla, Spain.  
*Carbon dioxide conversion using ac and pulsed dielectric barrier discharge*
- P05: **Tian Tian** T06  
GREMI, UMR7344, CNRS/Université d'Orléans, France.  
*Removal of amoxicillin and sulfamethoxazole in water using non-thermal plasma*
- P06: **Hamed Mahdikia** T06  
Leibniz Institute for Plasma Science and Technology, Germany.  
*Operating Barrier Corona Discharges in Argon and CO<sub>2</sub> Gas Mixtures at Elevated Pressure*
- P07: **Rezvan Hosseini Rad** T06  
Leibniz Institute for Plasma Science and Technology (INP), Germany.  
*Electrical Characterization of a Coaxial Dielectric Barrier Discharges for CO<sub>2</sub> splitting at Elevated Pressure*
- P08: **Shahriar Mirpour** T01  
Eindhoven university of technology, Netherlands.  
*Investigating CO<sub>2</sub> streamer inception in repetitive pulsed discharges*
- P09: **Lucia Švandová** T01  
Masaryk University, Czech Republic.  
*Properties of Cr-doped Al<sub>2</sub>O<sub>3</sub> as a dielectric barrier layer*
- P10: **Mária Čibíková** T01  
University of Comenius, Faculty of Mathematics, Physics and Informatics, Bratislava, Slovakia, Slovakia.  
*Characterization of emission current generated by pulse electric field in microdischarge electrode system*
- P11: **Lucia Kuthanová** T01  
Masaryk University, Czech Republic.  
*Spatiotemporal memory effects in barrier discharge at water interface*
- P12: **Simon Dap** T01  
LAPLACE - Toulouse University, France.  
*Pre-ionization in atmospheric pressure townsend discharges (APTD): surface vs volume mechanisms*
- P13: **Hiroshi Arai** T01  
Chiba Institute of Technology, Japan.  
*Linearized Penning effect in gas mixture with small amount of H<sub>2</sub>O content in He*
- P14: **Haruo Itoh** T01  
Chiba Institute of Technology, Japan.  
*Increase of Penning ionization coefficient proportional to small amount of water vapor admixed with helium*
- P15: **Shuai Zhao** T09  
Eindhoven University of Technology, Netherlands.  
*Microelectrode-assisted atmospheric pressure air discharge and its extended applications*

- P16: **Nicolas Naudé** T09  
 Université de Toulouse, France.  
*Dielectric barrier discharges: from spatially resolved electrical measurements to a reconfigurable electrode*
- P17: **Zdenek Navratil** T02  
 Masaryk University, Czech Republic.  
*2D-resolved electric field measurement in helium coplanar DBD using multi-wavelength single photon counting*
- P18: **Emanuel Maťaš** T02  
 Faculty of Mathematics, Physics and Informatics, Comenius University, Slovakia.  
*Ion Mobility Spectrometry diagnostics of NO<sub>x</sub> generated in kHz driven DBD plasma jet in Argon*
- P19: **Sara Ceulemans** T02  
 University of Antwerp, Belgium.  
*Effect of quenching on the afterglow temperature to improve CO<sub>2</sub> conversion in a rotating gliding arc plasma reactor*
- P20: **Dennis Bouwman** T02  
 Centrum Wiskunde & Informatica (CWI), Netherlands.  
*Theoretical approximations for macroscopic parameters of positive streamer discharges*
- P21: **Tomas Hoder** T02  
 Masaryk University, Czech Republic.  
*Kinetics of the N<sub>2</sub>(A<sup>3</sup>Σ<sub>u</sub><sup>+</sup>, v) state in atmospheric pressure townsend discharge in N<sub>2</sub>*
- P22: **Tomas Hoder** T02  
 Masaryk University, Czech Republic.  
*Development of a method for determination of the electric field in transient argon discharges*
- P23: **Omar Biondo** T02  
 University of Antwerp, Belgium.  
*Gas heating dynamics in a CO<sub>2</sub> pulsed glow discharge resolved by kinetic modeling*
- P24: **Yihao Guo** T02  
 Eindhoven University of Technology, Netherlands.  
*3D reconstruction and analysis of branching streamer discharges in air*
- P25: **David Rauner** T02  
 Leibniz Institute for Plasma Science and Technology (INP), Germany.  
*Spectroscopic determination of rotational and vibrational temperatures in molecular MW plasmas for gas conversion*
- P26: **Julia Mrotzek** T02  
 HAWK, Germany.  
*Characterization of the plasma torch of an APPJ for thin film deposition*
- P27: **Gerard van Rooij** T03  
 Maastricht University, Netherlands.  
*Unravelling Transport in CO<sub>2</sub> Microwave Plasma by Comparing Flow Geometries*
- P28: **Hemaditya Malla** T04  
 Centrum Wiskunde & Informatica, Netherlands.  
*Identifying the Major Reactive Oxygen-Nitrogen Species in a Pulsed Streamer Discharge*
- P29: **Slavomír Sihelník** T07  
 Masaryk University, Czech Republic.  
*Dry cleaning and activation of flexible glass using nonthermal plasma before PEDOT:PSS coating*

P30: **Katerina Polaskova** T07

Brno University of Technology, Czech Republic.

*Effect of Plasma and Light Irradiation on Morphology of Deposited TiO<sub>2</sub> Nanoparticles*

P31: **Richard Krumpolec** T07

Masaryk University, Czech Republic.

*Ultra-fast low temperature atmospheric plasma triggered reduction-exfoliation of highly porous aerogel-like graphene oxide*

P32: **Maria Luíza de Azevedo** T07

Maastricht University, Netherlands.

*Fast pyrolysis in methane plasma*

P33: **Wouter Graef** T02

Plasma Matters, Netherlands.

*Status report on the LXCat project*

P34: **Daan Boer** T02

Eindhoven University of Technology, Netherlands.

*A Novel Data Platform for Low-Temperature Plasma Physics*

P35: **Jakub Kelar** T07

Masaryk University, Czech Republic.

*High quality UV digital printing on various materials with plasma enhanced surface*

**Session chair: Nicolas Naudé**

**16:40 - 17:00 Invited I01: Judith Golda** T06

Ruhr-University Bochum, Germany.

*Cold Atmospheric Pressure Plasmas for Plasma Catalytic Applications: Characteristics, Constraints and Challenges*

**17:00 - 17:20 Contributed C06: Naoki Osawa** T01

Kanazawa Institute of Technology, Japan.

*Comparison of surface charge density distribution generated by diffuse and filamentary barrier discharges in atmospheric pressure air*

**17:20 - 17:40 Contributed C07: Thomas Orrière** T01

Université de Poitiers, France.

*3D Topography of a liquid surface interacting with an Argon plasma jet*

**17:40 - 18:00 Contributed C08: Kazuki Watanabe** T01

Kanazawa Institute of Technology, Japan.

*Effect of surface resistivity on surface charge density and diffuse dielectric barrier discharge in atmospheric pressure air*

**18:00 - 18:30** Free time

**18:30 - 20:00 Dinner**

Zaal 2, afterwards, the hotel bar is open.

**Tue, Aug 23**

**08:00 - 09:00** Breakfast

In the large dining room ('Grote Eetzaal')

**Session chair: Indrek Jõgi**

**09:00 - 09:50** Invited I02: **Koichi Sasaki** T02

Hokkaido University, Japan.

*Detection of negative ions in dc glow and streamer discharges produced in ambient air*

**09:50 - 10:10** Contributed C09: **Vlasta Štěpánová** T07

Masaryk University, Czech Republic.

*Adhesion improvement of LLDPE/PA tubular foil used as sausage casing after a very short atmospheric-pressure roll-to-roll plasma treatment*

**10:10 - 10:30** Contributed C10: **Julia Mrotzek** T07

HAWK, Germany.

*OES as tool for characterization of an APPJ for thin film deposition*

**10:30 - 11:00** Coffee break

Foyer + terrace

**Session chair: Naoki Osawa**

**11:00 - 11:20** Contributed C11: **Kristian Wende** T08

Leibniz Institute for Plasma Science and Technology, Germany.

*Biomolecule oxidation by gas phase species – the role of the gas-liquid interphase*

**11:20 - 11:40** Contributed C12: **Mark Kushner** T08

University of Michigan, United States of America.

*Atmospheric pressure plasma treatment of organics in liquid: extending reaction mechanisms into solution*

**11:40 - 12:00** Contributed C13: **Jan Cech** T06

Masaryk University, Faculty of Science, Czech Republic.

*CaviPlasma – The new tool for energy-efficient large-scale treatment of liquids*

**12:00 - 12:20** Contributed C14: **Ravi Patel** T06

Eindhoven University of Technology, Netherlands.

*Filamentary DBD plasma for ignition stabilized combustion*

**12:30 - 14:00** Lunch

Foyer + terrace

**Session chair: Behnaz Bagheri**

**14:00 - 14:20** Contributed C15: **Perla Trad** T06

Laboratoire de Physique des Gaz et des Plasmas, France.

*Influence of the applied HV-pulse rise time on the removal efficiency of n-hexane in a DBD*

**14:20 - 14:40** Contributed C16: **Jeroen van Oorschot** T06

Eindhoven University of Technology, Netherlands.

*Real-Time In-Situ Characterization of Plasma Activated Water*

**14:40 - 21:40** Excursion + banquet

The excursion will be to the Zonneberg caves near Maastricht, followed by a boat-tour with dinner on the Maas (Meuse) river.

**Wed, Aug 24**

**08:00 - 09:00** Breakfast

In the large dining room ('Grote Eetzaal')

**Session chair: Fumiyoshi Tochikubo**

**09:00 - 09:50** Invited I04: **Deborah O'Connell** T01

Dublin City University, Ireland.

*Controlling vibrational kinetics through energy input into repetitively pulsed atmospheric pressure nitrogen discharges*

**09:50 - 10:10** Contributed C17: **Alex Destrieux** T02

Laval University, Canada.

*Toward a better understanding of the electrical properties in a dielectric barrier discharge during long-time operation*

**10:10 - 10:30** Contributed C18: **Anne Limburg** T02

Eindhoven University of Technology, Netherlands.

*Influence of probing laser beam and electric field properties in E-FISH measurements*

**10:30 - 11:00** Coffee break

Foyer + terrace

**Session chair: Ute Ebert**

**11:00 - 11:20** Contributed C19: **David Prokop** T02

Masaryk University, Czech Republic.

*Spatiotemporal spectroscopic characterization of nanosecond pulsed volume barrier discharge in argon*

**11:20 - 11:40** Contributed C20: **Siebe Dijcks** T02

Eindhoven University of Technology, Netherlands.

*Corona Imaging*

**11:40 - 12:20** Organ concert

An organ concert by the TU/e organ player in the church of the Rolduc Abbey.

**12:30 - 14:00** Lunch

Foyer + terrace

**Session chair: Tom Huiskamp**

**14:00 - 14:50** Invited I03: **Luc Stafford** T07

Université de Montreal, Canada.

*Advanced surface engineering of cellulose nanomaterials using dielectric barrier discharges at atmospheric pressure*

**14:50 - 15:10** Contributed C21: **Markus Becker** T02

Leibniz Institute for Plasma Science and Technology (INP), Germany.

*Combining modelling and experiment for advanced plasma diagnostics*

**15:10 - 15:30 Contributed C22: Mohammad Hasani T02**

Eindhoven University of Technology, Netherlands.

*Charge detection of plasma exposed surfaces using quantum dots photoluminescence*

**15:30 - 16:00** Coffee break

Foyer + terrace

**Session chair: Gerrit Kroesen**

**16:00 - 16:20 Contributed C23: Hans Höft T02**

INP Greifswald, Germany.

*Impact of dielectric-covered electrode proximity on streamer propagation in pulsed-driven dielectric barrier discharges*

**16:20 - 16:40 Contributed C24: Hani Francisco T02**

Centrum Wiskunde & Informatica, Netherlands.

*The propagation and chemistry of positive streamers in lightning and sprite discharges at different air densities*

**16:40 - 17:00 Contributed C25: Thijs van der Gaag T02**

Tokyo Institute of Technology, Japan.

*EEDF measurement of cold atmospheric-pressure plasma by OES*

**17:00 - 17:20 Contributed C26: Davide Del Cont-Bernard T02**

Maastricht University, Netherlands.

*Development of the EFISH technique for electric field measurements in nanosecond repetitively pulsed discharges*

**17:20 - 17:40 Contributed C27: Francisco Pontiga T02**

Universidad de Sevilla, Spain.

*Distribution of neutral species in a corona discharge: effect of the electrohydrodynamic gas motion*

**17:40 - 18:00 Contributed C28: Lucia Kuthanová T09**

Masaryk University, Czech Republic.

*Liquid displacement by atmospheric pressure plasma in microgap*

**18:00 - 18:30** Free time

**18:30 - 20:00 Dinner**

Zaal 2, afterwards, the hotel bar is open.

**19:30 - 22:00** ISC-meeting

## Thu, Aug 25

### 08:00 - 09:00 Breakfast

In the large dining room ('Grote Eetzaal')

### Session chair: TBD

#### 09:00 - 09:50 Invited I05: **Xin Pei Lu** T01

HuaZhong University of Science and Technology, China.

*Atmospheric Pressure Plasma*

#### 09:50 - 10:10 Contributed C29: **Yury Gorbanev** T03

University of Antwerp, Belgium.

*Pulsed plasma jet for nitrogen fixation: Fundamentals and prospective technologies*

#### 10:10 - 10:30 Contributed C30: **Ursel Fantz** T03

Max-Planck-Institut fuer Plasmaphysik, Germany.

*Enhancement of CO<sub>2</sub> conversion at atmospheric pressure by influencing the gas quenching in the effluent of a microwave plasma torch*

#### 10:30 - 11:00 Coffee break

Foyer + terrace

### Session chair: **Tomáš Hoder**

#### 11:00 - 11:20 Contributed C31: **Mostafa Hassan** T03

Faculty of Mathematics, Physics and Informatics, Comenius University, Slovakia.

*The role of gas-water interface size on solvation of gaseous species to water*

#### 11:20 - 11:40 Contributed C32: **David Sawtell** T03

Manchester Metropolitan University, United Kingdom.

*Insights into nitrogen fixation using microfluidic plasma devices*

#### 11:40 - 12:00 Contributed C33: **Chiel Ton** T04

Eindhoven University of Technology, Netherlands.

*Transient plasma for air purification using 400 kV pulses*

#### 12:00 - 12:20 Closing ceremony

### 12:30 - 14:00 Lunch

Foyer + terrace

#### 14:00 - 15:30 Bus to Eindhoven (optional)

If you would like to join the lab tour and have not registered yet, then please do this as soon as possible.

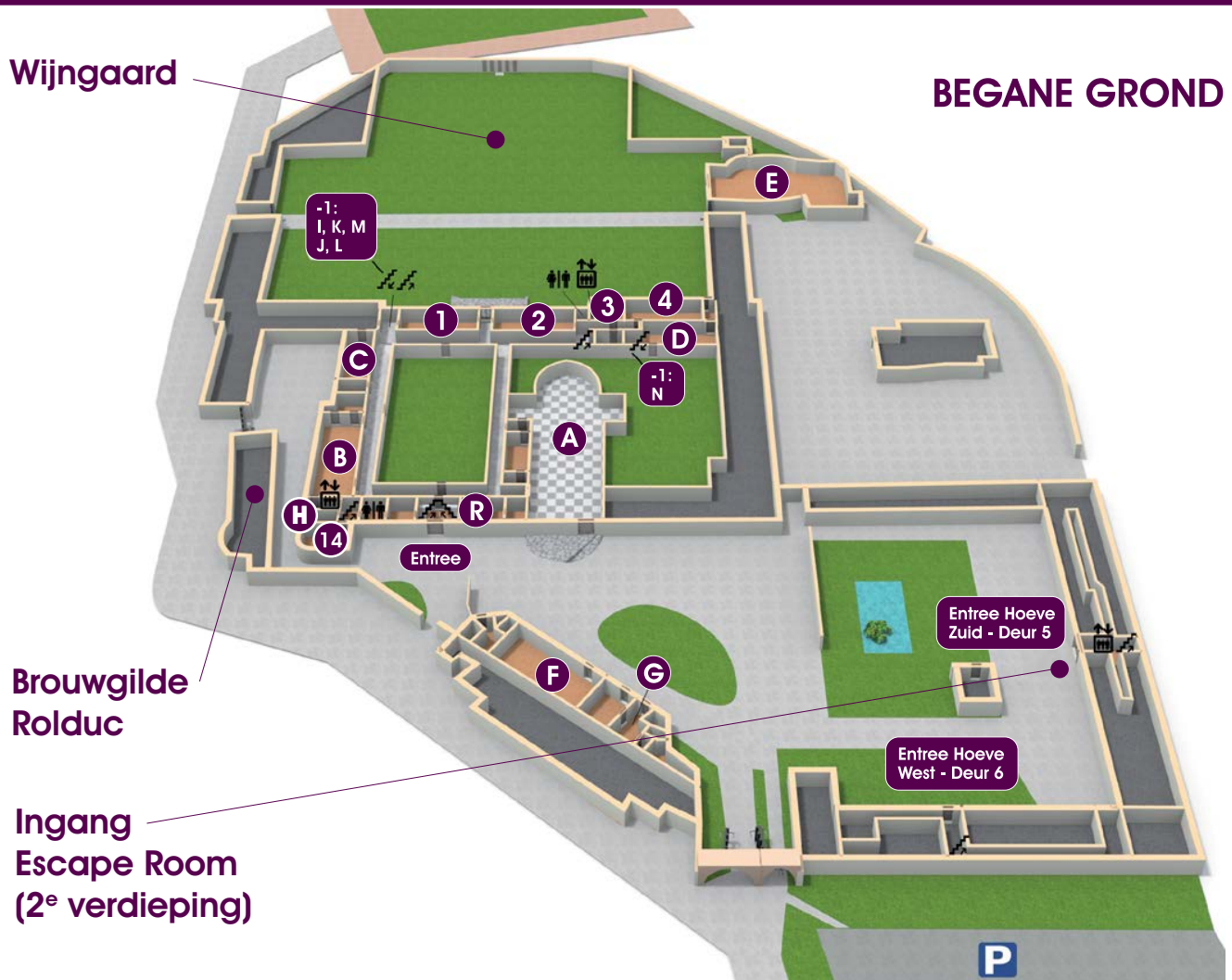
#### 15:30 - 17:30 Labtour Eindhoven (optional)





# ABDIJ ROLDUC

hotel restaurant conferentieoord



## BEGANE GROND

- A Abdijskerk
- B Grote Eetzaal
- C Brasserie De Kanunnik
- D Foyer
- E Aula Major (buiten)
- F Aula Minor (buiten)
- G Fietsenstalling (buiten)
- H Bagageruimte
- R Receptie

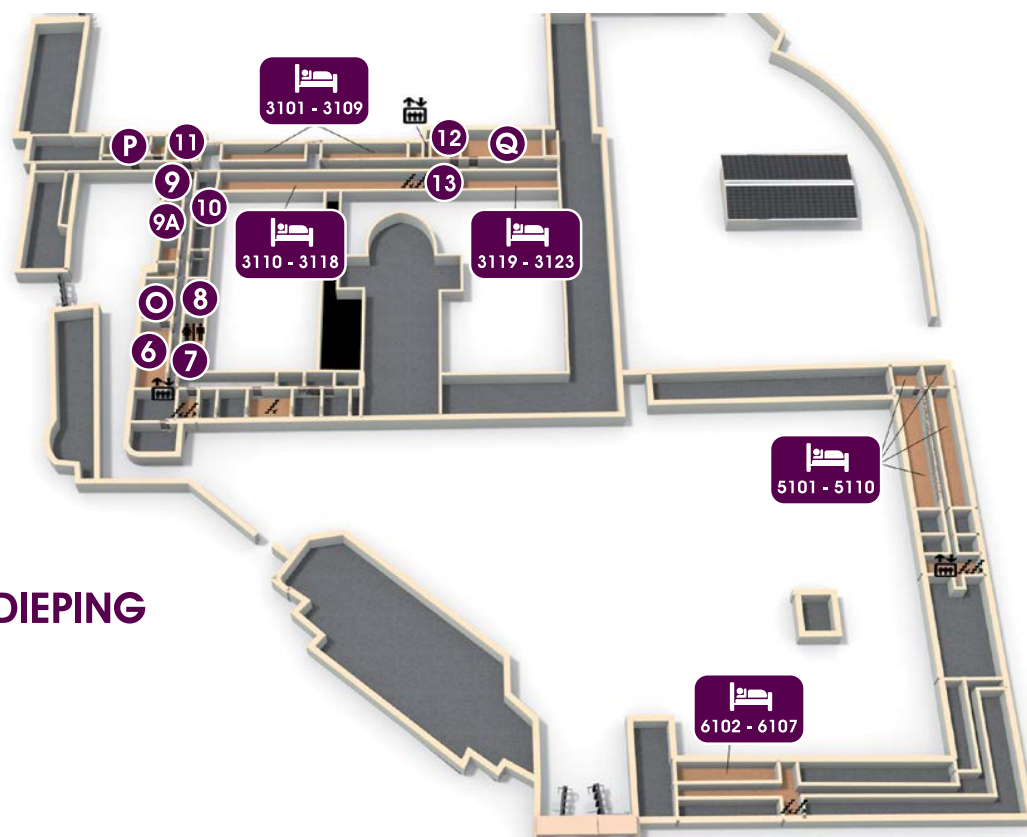
## BEGANE GROND

- 1 Zaal 1
- 2 Zaal 2
- 3 Zaal 3
- 4 Zaal 4
- 14 Zaal 14

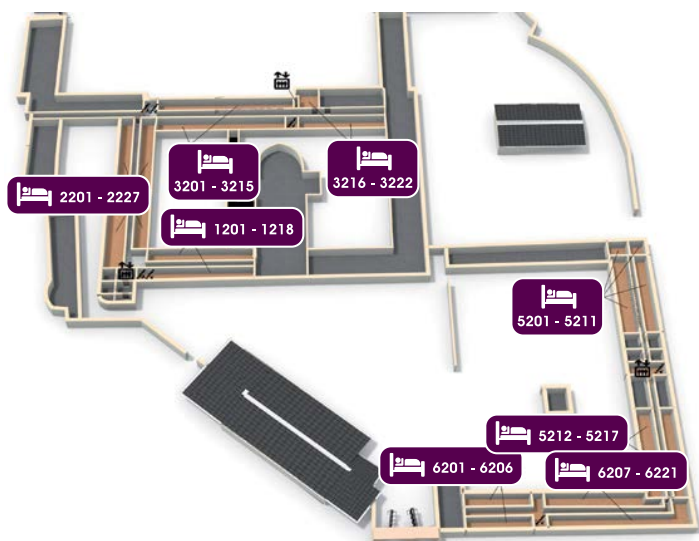
## KELDER (-1)

- I De Verloren Zoon
- J Zwaantje
- K Rookruimte
- L Kana 1
- M Kana 2
- N Boerenkelder

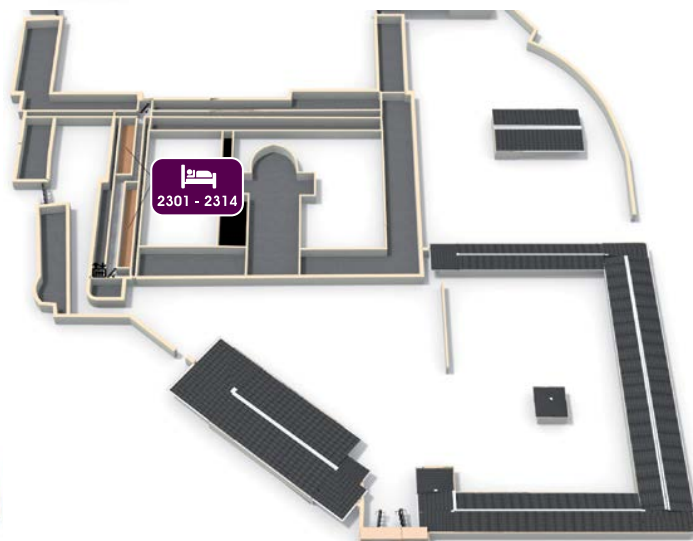
## 1<sup>e</sup> VERDIEPING



## 2<sup>e</sup> VERDIEPING



## 3<sup>e</sup> VERDIEPING



### 1<sup>e</sup> VERDIEPING

- O Kleine Eetzaal
- P Bisschopszaal
- Q Rococo-bibliotheek

### 1<sup>e</sup> VERDIEPING

- 6 Zaal 6
- 7 Zaal 7
- 8 Zaal 8
- 9 Zaal 9
- 9A Zaal 9A
- 10 Zaal 10
- 11 Zaal 11
- 12 Zaal 12
- 13 Zaal 13



### 1<sup>e</sup> VERDIEPING

- 3101 - 3123 (hoofdgebouw)
- 5101 - 5110 (Hoeve)
- 6102 - 6107 (Hoeve)

### 2<sup>e</sup> VERDIEPING

- 1201 - 1218 (hoofdgebouw)
- 2201 - 2227 (hoofdgebouw)
- 3201 - 3222 (hoofdgebouw)
- 5201 - 5217 (Hoeve)
- 6201 - 6221 (Hoeve)

### 3<sup>e</sup> VERDIEPING

- 2301 - 2314 (hoofdgebouw)



Lift