PROGRAMME
39th INTERNATIONAL VIENNA MOTOR SYMPOSIUM

- New Otto and Diesel Engines
- Future Fuels
- New Powertrains and Transmissions for Heavy Duty Vehicles
- New Combustion Processes / Engine Control
- Electric Drives / Hybrids
- Innovative Systems of Emission Control
- Fuel Cells
- View to the Future

Exhibition of New Engines and Components
Cultural and Social Programme

Thursday, 26 April 2018, 7.45 - 18.30 hrs.
Friday, 27 April 2018, 8.00 - 17.45 hrs.

Congress Center Hofburg Vienna
Heldenplatz
1014 Vienna, Austria

Chairman: Univ.-Prof. Dr. B. Geringer
Univ.-Prof. Dr. H. P. Lenz
INNOVATIVE TECHNOLOGY

SUBJECTIVE FEELINGS
Fuel your passion for driving

AUTONOMOUS DRIVING
Free your mind to limitless possibilities

Power towards a greener future
ELECTRIFICATION

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Technical Information ........................................... (in sequence)

- AVL List GmbH, Graz
- BorgWarner, Ludwigsburg
- AUDI AG, Ingolstadt
- Daimler AG, Stuttgart
- Nemak Europe GmbH, Frankfurt/Main
- Schaeffler AG, Herzogenaurach
- Volkswagen AG, Wolfsburg
WE ARE PLEASED TO INVITE YOU TO PARTICIPATE IN THE
39th INTERNATIONAL VIENNA MOTOR SYMPOSIUM
AND KINDLY REQUEST YOU TO TAKE INTO CONSIDERATION
THE FOLLOWING GENERAL INFORMATION:

Lecture Duration:
20 minutes each, followed by 10 minutes discussion.

Language of Lectures:
German and English (simultaneous translation).

Conference Papers:
- Complete collected edition of all lectures on USB stick (German/English) or in
  paper version (VDI-books) and on USB stick (German/English).
- Lists of participants and exhibitors.
The conference papers will be distributed to participants at the Registration Desk.

Congress Venue:
Congress Center Hofburg Vienna, Heldenplatz, 1014 Vienna, Austria
Telephone +43/1/536 44/223 to 225 (only in use during the symposium)
Telefax +43/1/536 44/226 (only in use during the symposium)

Bus Service:
Thursday, 26 April 2018, 20.00 hrs.:
To Wine “Heuriger” and return (23.00 hrs. and 23.30 hrs.).
Friday, 27 April 2018, 18.00 hrs. (at the end of the symposium):
Congress Center Hofburg to Vienna Airport (Schwechat).
Arrival Vienna Airport approx. 18.40 hrs.
Please specify the bus transfers when you register.
Buses will be marked „Wiener Motorensymposium‟.

Organization of the Symposium:
Austrian Society of Automotive Engineers (ÖVK)
Elisabethstrasse 26, 1010 Vienna, Austria
Univ.-Prof. Dr. B. Geringer, President of the Austrian Society of Automotive Engineers
(ÖVK) and Chairman of the Institute for Powertrains and Automotive Technology,
Vienna University of Technology, Getreidemarkt 9, 1060 Vienna, Austria
Univ.-Prof. Dr. H. P. Lenz, Honorary President of the Austrian Society of
Automotive Engineers (ÖVK)
Telephone +43/1/585 27 41 /20 Mrs B. Lampl
/30 Mrs A. Neider
/70 Mr R. Preiml
/40 Mrs U. Riegler
Telefax +43/1/585 27 41/99
www.vienna-motorsymposium.com
E-Mail: info@oevk.at
Registration:
The registration details (online registration, registration form) can be found on www.vienna-motorsymposium.com.

Please register online or send the registration form to:
Austropa Interconvention, Lassallestrasse 3, 1020 Vienna, Austria,
Telephone +43/1/588 00/516, Telefax +43/1/588 00/520,
E-Mail: motoren2018@austropa.at

Registration Fee: € 2.328,– incl. 20% VAT
Registration Fee ÖVK Membership: € 2.244,– incl. 20% VAT

Austropa Interconvention will confirm receipt of the online registration immediately, but this is not the authorization to participate at the symposium.

A confirmation of participation or other information will follow in a few days. Vouchers, as ordered, as well as tickets of the Vienna State Opera, Vienna Volksoper, Konzerthaus, Raimundtheater and Ronacher will be distributed at the Austropa Interconvention Counter at the Congress Center Hofburg Vienna on Thursday, 26 April 2018, 7.45 - 18.30 hrs., and on Friday, 27 April 2018, 8.00 - 14.00 hrs. Starting times of performances may be obtained at the counter of Austropa Interconvention.

Cancellation:
Cancellations must be made in writing to Austropa Interconvention.

Registration:
For cancellation after 15 March 2018, we are obliged to request full payment of complete registration fees, as all orders will have been placed.

Hotel:
For cancellation of hotel reservation between 16 March 2018 and 18 April 2018 a charge equivalent to the price of the first night at the hotel will be made. For cancellation after 18 April 2018 or non-occupancy of reserved rooms, the whole amount of the invoice will be charged from the credit card.

Evening Programme:
No reimbursement of tickets booked for the Vienna State Opera, Vienna Volksoper, Konzerthaus, Raimundtheater and Ronacher can be guaranteed.

Payment:
In order to guarantee the reservation, the invoice has to be settled within 2 weeks.
Method of payment as indicated on the confirmation of participation/invoice issued by Austropa Interconvention.

Student Registration:
For the 39th Vienna International Motor Symposium we offer Austrian and foreign students a limited number of free student places. Certain conditions must be met if you wish to participate in the Symposium. For more detailed information, please visit our homepage www.vienna-motorsymposium.com where you will find the application form. The period for submitting applications will end on 15 February 2018.
Thursday, 26 April 2018, Morning

**REGISTRATION**
07:45

**OFFICIAL OPENING**
Univ.-Prof. Dr. H. P. Lenz
08:45

**PLENARY OPENING SESSION**
Chairman: Univ.-Prof. Dr. H. P. Lenz

Andreas Renschler,
Member of the Executive Board of Volkswagen AG,
CEO of Volkswagen Truck & Bus GmbH,
Volkswagen AG, Wolfsburg:
**Volkswagen Truck & Bus and the Future of Transportation**
09:00

Prof. KR Ing. Siegfried Wolf,
Chairman of the Board of Directors,
Russian Machines LLC, Moscow:
**Russia – a Sleeping Giant?**
09:20

Prof. Dr. Helmut List,
Chairman and CEO,
AVL List GmbH, Graz:
**Propulsion Systems in Transition**
09:40

Discussion of the lectures in this session
10:00

Coffee Break
10:30
**SESSION: NEW DIESEL ENGINES**
Chairman: Univ.-Prof. Dr. B. Geringer, Vienna University of Technology

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**PARALLEL SESSION: FUTURE FUELS 1**
Chairman: Univ.-Prof. Dr. H. Eichlseder, Graz University of Technology

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<th>Time</th>
<th>Speaker/Institution</th>
<th>Title</th>
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<tr>
<td>11:15</td>
<td>Dr. J. Adolf, Dr. C. Balzer, Dr. A. Janssen, Dr. W. Warnecke, Shell, Hamburg; Dr. K. Gruenberg, Dr. M. Klokkennburg, et al., Shell NL; Dr. A. Mehta, Dr. J. Powell, Shell US; J. Cadu, Shell UK</td>
<td>The Route of Sustainable Fuels as the Basis for Zero Emission Mobility – has PtX a Chance?</td>
</tr>
<tr>
<td>12:15</td>
<td>Prof. Dr. R. Schlägl, Max Planck Institute for Chemical Energy Conversion, Mülheim a. d. Ruhr; Fritz Haber Institute of the Max Planck Society, Berlin</td>
<td>Sustainable Energy Systems and the Mobility Sector</td>
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<td>12:45</td>
<td>Dr.-Ing. M. Härtl, A. Stadler MSc, S. Blochum MSc, D. Pélerin MSc, Dipl.-Phys. T. Maier MSc, Dipl.-Phys. V. Berger, Prof. Dr.-Ing. G. Wachtmeister, Technical University of Munich; Dr.-Ing. P. Seidenspinner, Dr. T. Wilharm, ASG Analytik Service GmbH, Neusäß; Dr. E. Jacob, Emissionskonzepte Motoren, Krailling</td>
<td>DMC⁺ as Particulate Free and Potentially Sustainable Fuel for DI SI Engines</td>
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<tr>
<td>13:15</td>
<td>D. Neumann MSc, Prof. Dr.-Ing. S. Pischinger, M. Zubel MSc, Dipl.-Wirt.-Ing. B. Heuser, Prof. Dr. rer. nat. W. Leitner, K. Thenert MSc, RWTH Aachen University; Dipl.-Ing. C. Jörg, Dr.-Ing. J. Schaub, Dr.-Ing. M. Schönen, FEV Europe GmbH, Aachen</td>
<td>Power-to-Liquids – Compensation of Varying E-Fuel Compositions via Digital Rate Shaping</td>
</tr>
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Thursday, 26 April 2018, Afternoon

**SESSION: NEW GASOLINE ENGINES 1**
Chairman: Univ.-Prof. Dr. H. P. Lenz

Dipl.-Ing. Dr. techn. C. Landerl, Dr.-Ing. J. Hahn, Ing. D. Kügler, Dr.-Ing. B. Durst, Dipl.-Ing. S. Missy, BMW Group, Munich:  
*The New BMW 8-Cylinder Petrol Engine.*

Dipl.-Ing. J. Königstedt, Dr. N. Ardey, Dipl.-Ing. A. Fröhlich, Dipl.-Ing. J. Helbig, Dipl.-Ing. T. Reuss, Dipl.-Ing. J. Stotz, AUDI AG, Neckarsulm / Ingolstadt:  
*The Continued Development of the New Audi V6 TFSI Engine – The Next Milestone in TFSI Technology*

Dr. W. Demmelbauer-Ebner, Dr. J. Theobald, J. Worm, Dr. P. Scheller, Volkswagen AG, Wolfsburg:  
*The New 1,5l EA211 TGI evo – Volkswagen Steps on the e-Gas*

**PARALLEL SESSION: NEW POWERTRAINS / TRANSMISSIONS FOR HEAVY DUTY VEHICLES**
Chairman: Univ.-Prof. Dr. S. Pischinger, RWTH Aachen University

Dr. N. Steininger, Dr. D. Savvidis, European Commission, Brussels:  
*CO₂ Emissions from Heavy Duty Vehicles in the EU: Strategy & Regulatory Steps*

Dr.-Ing. S. Klett, A. Haag MEng, Dipl.-Ing. (FH) P. Eder, ZIEHL-ABEGG Automotive GmbH & Co. KG, Kupferzell; Dipl.-Ing. (FH) A. Angermaier, B. Langer BEng, AVL Software and Functions GmbH, Regensburg:  
*High Performance Electric Drivetrain for Heavy Duty Vehicles*

Dipl.-Ing. M. Bahne, Magna Powertrain – GETRAG International GmbH, Cologne:  
*Transmission Technology Contribution to CO₂ Roadmap – A Benchmark*
PARALLEL SESSION: NEW COMBUSTION PROCESSES / ENGINE CONTROL
Chairman: Univ.-Prof. Dr. G. Brasseur, Graz University of Technology

Dipl.-Ing. M. Sens, Dr.-Ing. E. Binder, Dipl.-Ing. A. Benz, Dr. rer. nat. L. Krämer, Dipl.-Ing. M. Schultalbers, Dipl.-Ing. K. Blumenröder, IAV GmbH, Berlin / Gifhorn:
Pre-Chamber Ignition as a Key Technology for Highly Efficient SI Engines – New Approaches and Operation Strategies

Dr. G. Rösel, Dr. E. Achleitner, Dipl.-Ing. H. Frenzel, Dipl.-Ing. J. Grimm, Dipl.-Ing. P. Senft, Dr. H. Zhang, Dr. O. Maiwald, Continental, Regensburg:
System Approach for a Vehicle with Gasoline Direct Injection and Particulate Filter for RDE

M. Younkins PhD, J. Serrano PhD, J. Fuerst BSME MBA, S. Carlson BSME, Tula Technology, San Jose, USA; A. Rayl MSEE, GM Global Propulsion Systems, Milford, USA:
Dynamic Skip Fire: Technologies for Innovative Powertrains

End of Programme 18:30

20.00 hrs.
Transfer to Wine “Heuriger”
20.30 hrs.
“Heuriger” Evening at the invitation of the Mayor of Vienna.
Please bring your invitation.

(see Social Programme and “Separate Brochure”)
**SESSION: INNOVATIVE ENGINE TECHNOLOGY**
Chairman: Univ.-Prof. Dr. H. P. Lenz

- J. J. Moon, S. Feldmann, D. Certo,
  GM Global Propulsion Systems, Pontiac, USA;
  Dipl.-Ing. L. K. Cloos, Dipl.-Ing. (FH) S. Müller,
  Opel Automobile GmbH, Rüsselsheim:
  The New Valve Train System of GM / Opel

- Dr. G. Fraidl, Dr. P. Kapus, Dipl.-Ing. H. Mitterecker,
  Ing. K. Prevedel, Dipl.-Ing. (FH) G. Teuschl, Dipl.-Ing. M. Weissbäck,
  AVL List GmbH, Graz:
  Internal Combustion Engine 4.0

- Dipl.-Ing. U. Baretzky, Dipl.-Ing. H. Diel,
  Dipl.-Ing. W. Kotauschek, Dr.-Ing. P. Kuntz, Dipl.-Ing. S. Dreyer,
  AUDI AG, Ingolstadt:
  The 4.0 l V6 TDI Engine for the 24hrs of Le Mans – Victory of Efficiency

- Dr. C. Hilton MA PhD,
  Protean Electric Ltd, Farnham:
  ProteanDRIVE®: a Digital Propulsion System in the Wheels

**SESSION: FUTURE ELECTRIC DRIVES / HYBRIDS**
Chairman: Univ.-Prof. Dr. B. Geringer

- BMW Group, Munich:
  The Electrical Powertrain Technology of BMW Group.
  Dipl.-Ing. S. Pint, Dr.-Ing. N. Ardey, Dr.-Ing. G. Mendl,

- Dipl.-Ing. G. Fröhlich, Dipl.-Ing. R. Straßer, Dipl.-Ing. T. Laudenbach,
  AUDI AG, Ingolstadt:
  The Electric Drivetrain in the New Audi e-tron

- Dr. S. Kunert, Dipl.-Ing. W. Müller, Dr.-Ing. S. Musa,
  Dipl.-Ing. W. Müller, Dr.-Ing. S. Musa,
  Shell Research Limited, London:
  Effects of Fuel Composition, Additives and Injection Parameters
  on Particulate Formation of Gasoline DI Engines

- Dipl.-Ing. U. Baretzky, Dipl.-Ing. H. Diel,
  Dipl.-Ing. W. Kotauschek, Dr.-Ing. P. Kuntz, Dipl.-Ing. S. Dreyer,
  AUDI AG, Ingolstadt:
  The 4.0 l V6 TDI Engine for the 24hrs of Le Mans – Victory of Efficiency

- Dipl.-Ing. (FH) R. Hintringer,
  Miba AG, Laakirchen:
  Thermal Efficient eMotors with Pin Windings for Serial Production
SESSION: FUTURE ELECTRIC DRIVES / HYBRIDS
Chairman: Univ.-Prof. Dr. B. Geringer,
Vienna University of Technology

Dipl.-Ing. S. Juraschek, Dipl.-Ing. A. Buchner, Dr.-Ing. B. Schinnerl,
BMW Group, Munich:
The Electrical Powertrain Technology of BMW Group.

Dipl.-Ing. S. Pint, Dr.-Ing. N. Ardey, Dr.-Ing. G. Mendl,
Dipl.-Ing. G. Fröhlich, Dipl.-Ing. R. Straßer, Dipl.-Ing. T. Laudenbach,
Dr.-Ing. J. Doerr, AUDI AG, Ingolstadt:
The Electric Drivetrain in the New Audi e-tron

K. Oshima, S. Kato,
Toyota Motor Corporation, Aichi, Japan:
New Multi Stage Hybrid System for the LC500h with
Innovative Drivability of the THSII

Dipl.-Ing. C. Billig, Dr.-Ing. A. Wilde,
Dr.-Ing. F. Preuss, Dipl.-Ing. S. Juraschek,
BMW Group, Munich:
Innovations in xEV Powertrains and Challenges for
Future Architectures.

PARALLEL SESSION: EMISSION CONTROL
Chairman: Univ.-Prof. Dr. G. Hohenberg,
Darmstadt University of Technology

Dipl.-Ing. M. Brugger, Dipl.-Ing. T. Cartus, Dipl.-Ing. R. Brück,
Continental Emitec GmbH, Lohmar;
Dr. O. Maiwald, Continental Automotive GmbH, Regensburg:
Procedure and Design of Exhaust Systems to Fulfill all Emission
Limits During Real Driving Conditions: ”In Use Conformity”

Dipl.-Ing. H. Schmidt, Dipl.-Ing. G. Zielonka,
TÜV NORD Mobilität & Co. KG, Essen:
Implementing the Worldwide Harmonised Light-duty Vehicles
Test Procedures (WLTP) in Europe – Legislation and Practical
Realisation

Dr.-Ing. W. Wiese, Dipl.-Ing. C. Laidig, Dr.-Ing. E. Schünemann,
Robert Bosch GmbH, Schwieberdingen; F. Balthasar MBA MEng,
J. Chahat PhD MSc, Shell Research Limited, London:
Effects of Fuel Composition, Additives and Injection Parameters
on Particulate Formation of Gasoline DI Engines

Dr.-Ing. S. Kunert, Dipl.-Ing. W. Müller, Dr.-Ing. S. Musa,
Dr. S. Spiess, Umicore AG & Co. KG, Hanau-Wolfgang;
Dipl.-Ing. L. Hentschel, Dipl.-Ing. L. Schlüter, Dipl.-Ing. M. Thiele,
Volkswagen AG, Wolfsburg:
Integration of the Three-Way Functionality into the Gasoline
Particulate Filter – A New Technology for the Closed-Coupled
Exhaust Aftertreatment

Lunch at Congress Center
SESSION: FUEL CELLS / ELECTRIC DRIVE STRATEGIES
Chairman: Univ.-Prof. Dr. W. Eichlseder,
Montanuniversitaet Leoben

Dr.-Ing. S. H. Kim, K. S. Lee MSc,
Hyundai Motor Company, Gyeonggi-do, Korea:
The Next Generation Fuel Cell Electric Vehicle from
Hyundai Motor Company

Prof. Dr. rer. nat. C. Mohrdieck, Daimler AG,
Kirchheim unter Teck/Nabern; Dr.-Ing. S. Dehn,
NuCellSys GmbH, Kirchheim unter Teck/Nabern:
The Fuel Cell Engine of the New Mercedes-Benz GLC F-CELL

M. Toriumi, T. Onoyama,
Nissan Motor Co., Ltd., Kanagawa, Japan:
Nissan’s Electric Powertrain Strategy

PARALLEL SESSION: FUTURE FUELS 2/
THERMAL AND ENERGY MANAGEMENT
Chairman: Univ.-Prof. Dr. H. Eichlseder,
Graz University of Technology

Dr. F. Will, Ino8 Pty Ltd, Victoria, Australia;
Dr. H. Wang, Guangxi Liuzhou Jinhui International Technology Co.,
Ltd., Guangxi, China;
L. Gaojian MSc, L. Guohua BSc,
SAIC - GM Wuling Automobile Co., Ltd., Guangxi, China:
OVER8 – Affordable Thermal Management Innovations to
Achieve the 2020 Fuel Consumption Limits in China

Dipl.-Ing. (TH) H. Dismon, Dr.-Ing. P. Seggewiß,
Rheinmetall Automotive AG, Neuss;
Dr. rer. nat. D. Hunkel, Pierburg GmbH, Neuss:
Innovative Technologies for the Electrification of Future
Conventional and Alternative Vehicle Powertrains

Dr. P. Sauermann,
BP Europa SE, Bochum:
Fuels Technologies for Low Emission Mobility

Coffee Break 15:30
PLENARY CLOSING SESSION: VIEW TO THE FUTURE
Chairman: Univ.-Prof. Dr. B. Geringer, Vienna University of Technology

Ola Källenius,
Member of the Board of Management,
Group Research & Mercedes-Benz Cars Development,
Daimler AG, Stuttgart;
Driving the Future – The Best of Both Worlds

Prof. Dr. Klaus F. Gärditz,
Department Chair of Public Law,
University of Bonn;
Constitutional Issues of a Prohibition of Diesel Vehicles

Oliver Blume,
Chairman of the Executive Board,
Dr. Ing. h.c. F. Porsche AG, Stuttgart;
Sports Cars Powertrains of the Future

Discussion of the lectures in this session

CLOSING ADDRESS
Univ.-Prof. Dr. B. Geringer, Vienna University of Technology

End of Programme

18:00 hrs.
Bus Transfer from Heldenplatz (Congress Center Hofburg) to Vienna Airport (Schwechat)
Whether in a highly efficient combustion engine, an intelligent hybrid system or the very latest electric drive: BorgWarner is driving propulsion system solutions of today and tomorrow. Our vision is a clean, energy-efficient world. That’s why we develop solutions that reduce energy consumption and emissions, while at the same time improving performance. As the propulsion system leader for combustion, hybrid and electric vehicles, we are supporting the automotive industry in realizing clean propulsion and efficiency technology solutions for light vehicles, medium and heavy duty vehicles as well as off-highway applications.
Even a long journey starts with a single spark.

The Audi e-tron Sportback concept. Fully electric and high-powered with a range of up to 500 kilometres. We’re ready for the future and charged with excitement.
Social Programme
(For details see “Separate Brochure”)

Thursday, 26 April 2018
3 20.30 hrs.: Wine “Heuriger” at the invitation of the Mayor of Vienna
20.00 hrs.: Bus Transfer to Wine “Heuriger”, Neustift am Walde 68, 1190 Vienna, Telephone +43/1/440 14 05. Please bring your “Heurigen” invitation. This will be handed over at the registration desk to those participants who registered. (No extra charge). Approx. 23.00 hrs. and 23.30 hrs. Bus return from Wine “Heuriger” to Heldenplatz. Buses will be marked “Wiener Motorensymposium”.

Friday, 27 April 2018
1 9.15 – approx. 12.30 / 12.45 hrs.: Half-day tour “From the University to the Minorite Church”, Meeting Point: 9.15 hrs. Entrance Congress Center Hofburg, Heldenplatz
2 9.15 – approx. 13.00 hrs.: Half-day tour “Schönbrunn Palace – the Imperial Summer Residence”, Meeting Point: 9.15 hrs. Entrance Congress Center Hofburg, Heldenplatz

Evening Programme
(For details see “Separate Brochure”)

Friday, 27 April 2018
3 Evening: Performance at the Vienna State Opera “Fidelio” by Ludwig van Beethoven  
   (Tentative schedule)
4 Evening: Performance at the Vienna Volksoper “The Sound of Music” by Richard Rogers & Oscar Hammerstein  
   (Tentative schedule)
5 Evening: Musical at the Raimundtheater “I am from Austria” (Musical with greatest hits by Rainhard Fendrich)  
   (Tentative schedule)
6 Evening: Musical at the Ronacher “Dance of the Vampires” by Jim Steinman & Michael Kunze  
   (Tentative schedule)

Saturday, 28 April 2018
1 Evening: Performance at the Vienna State Opera “Aida” by Guiseppe Verdi  
   (Tentative schedule)
2 Evening: Ballet at the Vienna Volksoper “A Midsummer Night´s Dream”  
   (Music: Felix Mendelssohn Bartholdy – Choreography: Jorma Elo)  
   (Tentative schedule)
3 Evening: Concert at Vienna Konzerthaus (Rotterdam Philharmonic Orchestra: Joseph Haydn, Sergej Rachmaninoff, Pjotr Iljitsch Tschaikowsky)  
   (Tentative schedule)
4 Evening: Musical at the Raimundtheater “I am from Austria” (Musical with greatest hits by Rainhard Fendrich)  
   (Tentative schedule)
4 Evening: Musical at the Ronacher “Dance of the Vampires” by Jim Steinman & Michael Kunze  
   (Tentative schedule)

Starting times of performances at the Vienna State Opera, Vienna Volksoper, Vienna Konzerthaus, Raimundtheater and Ronacher may be obtained at the counter of Austropa Interconvention.
Please note that participation is limited. Tickets will be reserved on a first come first serve basis. If the requested price category is not available, we shall reserve tickets in the next lower or higher price category. Prices as indicated include an advance booking fee.
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The pictured vehicle is not for sale yet and therefore is not subject to rule 1999/94/EC. Symbol picture.