

## REGISTRATION SHORT COURSE I THE SOLID/LIQUID SEPARATION PROCESS

Date Monday, October 12, 2009 · 9.00 – 18.00 h

Venue Rhein-Main-Halls – Wiesbaden – Germany

The course is of interest to engineers, scientists, managers and other technical personnel involved in solid-liquid separation in the process and other industries. They will find the course informative, regardless of whether they design, purchase, research or use filtration and separation equipment. Plant engineers, technicians and operators should find the course materials directly applicable, and graduate research students will value the expert introduction to the technologies. It is a comprehensive review of the processes involved in the separation of solids from liquids, which will emphasise practical aspects and present appropriate theoretical information as necessary.

**SCOPE:** ■ Woven and Composite Filter Media ■ Nonwoven Filter Media and Membranes ■ Clarification Filtration ■ Sedimenters ■ Cake Filters ■ Centrifugal Separations ■ Pressure and Vacuum Filtration ■ Selection, Analysis and Simulation of SLS Equipment ■ Computer Software

9.00 h	<b>Introduction</b> The Solid/Liquid Separation process; overview of the course.	13.00 h	<b>Lunch</b>
9.15 h	<b>Filter Media 1</b> Woven fabrics, wirecloths and composites; properties and applications characteristics.	14.00 h	<b>Centrifugal Separators</b> Sedimenting and filtering centrifuges – principles and alternative centrifuge designs (e.g. plough, peeler pusher and decanter centrifuges).
10.00 h	<b>Filter Media 2</b> Nonwoven media – types (e.g. needlefelt, wet laid, spun bond), characteristics and uses. Membranes – types (e.g. polymeric, ceramic and metallic types), characteristics, operational properties.	15.00 h	<b>Break</b>
10.40 h	<b>Break</b>	15.30 h	<b>Pressure and Vacuum Filters</b> Alternative designs of pressure and vacuum filters, effects of filter operating characteristics, applications.
11.10 h	<b>Clarification Filtration</b> Clarification equipment; sand and DE filters, cartridges and precoat filters.	16.15 h	<b>Computer Software for Filtration</b> Generic equipment types, approaches to selection and simulation, use of computer software (methodology, selection charts, data analysis and process simulation), use showing simple and advanced procedures.
11.55 h	<b>Principles of Sedimentation and Filtration</b> Sedimentation and cake filtration fundamentals (incl. compressible cakes), laboratory tests and their relevance to process scale filters, importance of correct filter media selection.	17.00 h	<b>Discussion</b> An open-floor question and answer session.
12.45 h	<b>Discussion</b> An open-floor question and answer session.		

### Course Presenters

**Dr. Steve Tarleton** is a mechanical engineer and a Senior Lecturer at Loughborough University, and has been Secretary of the EFCE Working Party on Filtration and Separation.

**Professor Richard Wakeman** is a consultant chemical engineer with many years experience of working with industry internationally. He also holds professorships at Loughborough (UK), Pardubice (Czech Republic) and Chun Yuan (Taiwan) Universities and is a Visiting Fellow at Mumbai University (India). He is the Honorary Secretary of The Filtration Society and a Fellow of the Institution of Chemical Engineers and the Royal Academy of Engineering.

The presenters are internationally recognised experts who have worked extensively within the broad area of solid/liquid separation and membrane filtration, including the science and technology of applied industrial filtration and separation and related processes and of fundamental research. Their work has been recognised by awards from the Institution of Chemical Engineers, The Filtration Society, and the Indian Institute of Chemical Engineers. They have published more than 500 technical papers, books, patents etc. and consulted and lectured throughout the world.

### Registration information - Short Course I - The Solid/Liquid Separation Process

Day-Ticket	Registration until June 12, 2009 450 Euro Registration from June 13, 2009 540 Euro Prices include German VAT
Onsite Registration	October 12, 2009 8:00 am - 9:00 am
Date	Monday, October 12, 2009
Time	9:00 am - 6:00 pm
Venue	Rhein-Main-Halls Wiesbaden Germany

The Short-Course registration includes:

- Course Notes
- Lunch and drinks during breaks
- Free admission to the Exhibition (October 13 – 15, 2009)
- Exhibition Catalogue
- Wiesbaden Tourist + Public Transport Ticket
- FILTECH 2009 Get-Together October 13, 2009
- "The Dictionary of Filtration and Separation", 303 pages, 2008; Authors: S. Tarleton, R. Wakeman



## TRAVEL INFORMATION

### FILTECH 2009

International Conference and Exhibition for Filtration and Separation Technologies  
www.Filtech.de

### DATES

Short Courses: 12. October 2009  
Exhibition & Conference: 13.-15. October 2009

### EVENT VENUE

Rhein-Main-Hallen  
Rheinstr. 20  
65185 Wiesbaden  
www.rhein-main-hallen.de

### EXHIBITION OPENING TIMES

Tues-Wed: 9.00 am to 6.00 pm  
Thurs: 9.00 am to 5.00 pm

### VISITOR ADMISSION PASSES

(Admission authorization to the Exhibition for all days)

Visitor ticket (pre-registered)	EUR 15.00
Visitor ticket (onsite-registration)	EUR 25.00
FILTECH Catalogue	EUR 15.00

Please note that to attend a short course or the Congress a separate registration is necessary.

### TRAVEL

FILTECH 2009 will be again held in Wiesbaden, Germany. Wiesbaden is easy to reach by whatever means, be it by road, by rail or by plane. The City's proximity to Frankfurt International Airport guarantees easy access especially for international visitors: the largest airport in continental Europe is 30 minutes away by car or by train.

**FILTECH 2009 PARTICIPANTS CAN SAVE UP TO 20% ON TRAVEL WITH THE STAR ALLIANCE NETWORK!**

### TRAVELLING BY PLANE

#### STAR ALLIANCE

The Star Alliance™ Members Airlines are pleased to be appointed as the **Official Airline Network for FILTECH 2009**. To obtain the Star Alliance™ Conventions Plus discounts, please call the reservation office of a participating Star Alliance Member Airline and quote the convention code:

### FILTECH 2009 CONVENTION CODE LH08S09

Registered participants plus one accompanying person travelling to the event are automatically granted a discount of up to 20%, depending on fare and class of travel booked. Discounts are offered on published business and economy class fares, excluding website/internet fares, senior and youth fares, group fares and Round the World fares.

Booking office information can be found at:

[www.staralliance.com/conventionsplus](http://www.staralliance.com/conventionsplus) ->Business Solutions->ConventionsPlus->Delegate Log-In

Participating Airlines for this event are: ANA, Air Canada, Air China, Asiana Airlines, Austrian Airlines, LOT Polish Airlines, Lufthansa, SWISS International Air Lines, Scandinavian Airlines, Spanair, TAP Portugal, Turkish Airlines, United, bmi.

Please note: For travel from Japan and New Zealand special fares or discounts are offered by the participating airlines on their own network. When making your travel plans please present confirmation of your registration or proof of attendance.



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LOT POLISH AIRLINES

Lufthansa

Scandinavian Airlines

SINGAPORE AIRLINES

SOUTH AFRICAN AIRWAYS

Spanair

swiss

TAP TAPPORUGAL

THAI

UNITED


U-S AIRWAYS

Wiesbaden is easily accessible via **Frankfurt International Airport (FRA)**, the largest airport in continental Europe located only 28 kilometres away. Passengers do not even have to leave the terminal area to make their connections; they can take the suburban trains or several regional trains directly to Wiesbaden Central Station.

Another small airport is Frankfurt Hahn Airport (HHN). Despite its name, the airport is situated some 120 km west of Frankfurt and some 90 kilometres west of Wiesbaden. Passengers arriving there should aware that there is no train or tram connection to Wiesbaden. In total it will take at approx. 2 hours to get to Wiesbaden Central Station.


## **FROM FRANKFURT INTERNATIONAL AIRPORT (FRA) TO WIESBADEN (28 km distance):**

Fraport AG – Frankfurt International Airport  
60547 Frankfurt am Main  
Phone: +49 69 6900  
Fax: +49 69 69070081  
Infotelephone: +49 1805 3724636  
www.Frankfurt-airport.de

 By train: The Frankfurt International Airport [German: Rhein-Main-Flughafen or Flughafen Frankfurt am Main] is located in Frankfurt am Main, Germany, some 30 kilometres east of Wiesbaden. It is the **largest airport in Germany**, serving as an important hub for international flights from around the world and has two integrated railway stations: The long-distance railway station at the AIRail Terminal, right next to Terminal 1 and a regional railway station for S-Bahn (metropolitan railway), regional and local trains at Terminal 1, Level 1.

We recommend S-Bahn service S8 or S9 for your journey to Wiesbaden Hauptbahnhof (Central Station). These lines depart every 15 to 30 minutes on average from the regional station in Terminal 1, Level 1, at platforms 2 and 3. The journey takes around 30 minutes. Please select tariff zone 65/6500 on the RMV ticket machine for Wiesbaden (RMV: regional public transportation system). There is a fast-selection button for single tickets to Mainz/Wiesbaden, marked 'Einzelfahrt nach Mainz/ Wiesbaden'.

FILTECH 2009 Conference delegates receive a RMV combi-ticket with their registration confirmation allowing free local public transport from Frankfurt International airport to/in Wiesbaden and back.

 By taxi: A large number of taxis are available at both terminals. A trip to/from the centre of Wiesbaden costs about **EUR 40-45 and takes 20 to 30 minutes**, depending on traffic conditions. If you travel back to Frankfurt Airport by taxi, simply tell the driver the name of your airline. The taxi driver knows his way round and will "automatically" take you to the right terminal and put you down near your check-in desk.

### **Airport Taxi Transfer**

www.flughafentransfer-ebert.de Phone: +49 6123 605874  
www.taxi@wi-taxi.de Phone: +49 7 24 25 56


### **Car Rental**

At Frankfurt International Airport you will find several companies offering car rental services.

## **FROM FRANKFURT HAHN AIRPORT (HHN) TO WIESBADEN (90 km distance):**

Hahn Airport  
55483 Hahn-Flughafen  
Infotelephone: +49 6543 509200  
Terminal Info: +49 6543 509113  
www.hahn-airport.de

Frankfurt Hahn Airport [German: Flughafen Frankfurt-Hahn] is an international aviation facility located in central western Germany. Despite its name, the airport is **situated some 120 km west of Frankfurt** and some **90 kilometres west of Wiesbaden**. The airport was originally the Hahn Air Base of the United States Air Force, and was converted to a civil airport after outliving its usefulness as a military base. Although it handles international flights, Hahn airport does not have the word "International" as part of its name - in order to avoid confusion with the more heavily used Frankfurt International Airport. As airport charges to operators are low because of its remote location, Frankfurt-Hahn is very popular with low-cost airlines like Ryanair, which uses it as one of its principal hubs.

 By bus: There are buses (ORN-airport-shuttle) every 1 or 2 hours between Frankfurt Hahn Airport (bus terminal stop 1 in front of the terminal building) and the main railway station in Mainz. The bus journey to Mainz takes 70 minutes. Tickets are available on the bus (The FILTECH public transport ticket is not valid for this bus) From Mainz to Wiesbaden Hauptbahnhof (Central Station) we recommend S-Bahn service S8 (The FILTECH public transport ticket is valid for regional trains from Mainz to Wiesbaden). This line departs every 30 minutes from platform 1a inside the main railway station on street level. The journey takes another 15 minutes. Please select tariff zone 65/6500 on the RMV ticket machine for Wiesbaden. In total it will take at approx. 2 hours (!) to get to Wiesbaden Central Station.

 By taxi: A trip to/from the centre of Wiesbaden costs about **EUR 100 – 145 (!) and takes about 1 hour**.

## TRAVEL INFORMATION

### TRAVELLING BY TRAIN

The **Central Station** of Wiesbaden is a breakpoint of important Euro- and Intercity connections. Wiesbaden is closely linked to Frankfurt Hbf Main Station through numerous rail connections, a journey of only 35 minutes. Travellers arriving by train have only short walking distances in the City. Pedestrians can easily reach the most important sights and facilities in a few minutes.

From the Central Station to the Rhein-Main-Hallen it is only a 10 minutes walk. You can also take the bus or taxi from outside the main station - a few minutes ride and very frequent service. FILTECH 2009 Conference delegates have a public transport ticket for Wiesbaden and can use buses and trams in Wiesbaden free of charge. The ticket also covers free rides with regional trains from Frankfurt Airport to Wiesbaden Central Station and back.

#### Railway Travel Centre

Bahnhofplatz 1  
65189 Wiesbaden

#### Opening Hours:

Monday - Friday 6 am - 7.30 pm  
Saturday 7 am - 6 pm  
Sunday 8.45 am - 7 pm

### TRAVELLING BY CAR

Wiesbaden is linked to **8 highways** and seven federal roads, and can be reached, e.g., from the north via A5 or A3, from the east via A3/A66, from the south via A5 or A67/A63 and from the west via A60. The Rhein-Main-Halls are located in the City Center.

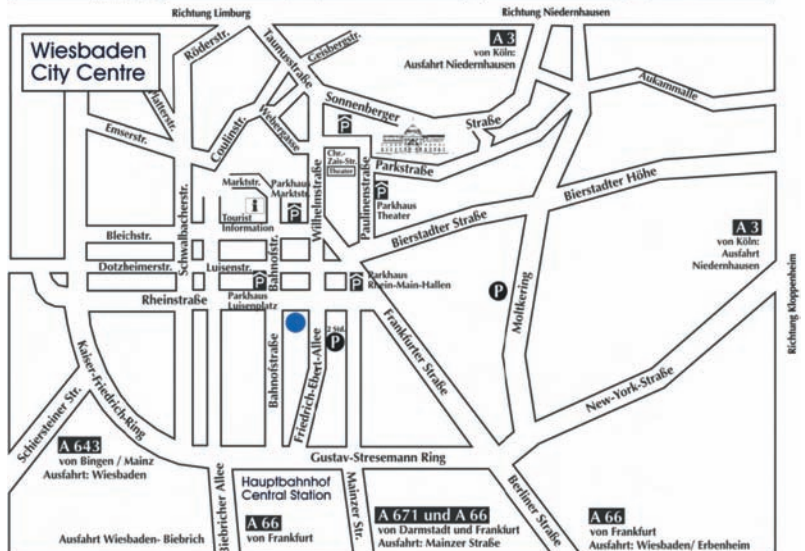
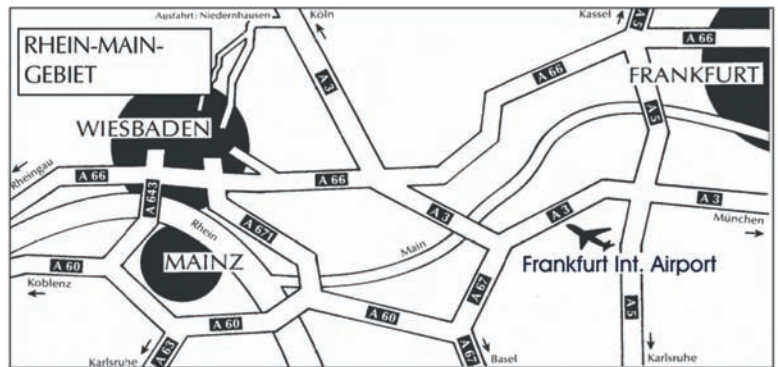
Coming from the Frankfurt Airport (by car)


- Drive in the B43.
- Leave the B43 and drive on the slip road Exit Kelsterbach on the A3 direction Köln, Wiesbaden, Darmstadt, Mainz, Rüsselsheim.
- Alternate at the Wiesbadener Kreuz on the A66.
- Alternate at the Wiesbaden-Mainzer Straße (5) from the A66 in direction Wiesbaden – Stadtmitte (town center), Wiesbaden-Mainzer Str.
- Now you pass the slip road of Wiesbaden.
- Follow the Mainzer Straße (B263)
- Leave the Mainzer Straße (B263) and turn left into the Gustav-Stresemann-Ring (B54).
- Leave the Gustav-Stresemann-Ring (B54) and drive straight on the Kaiser-Friedrich-Ring (B54).
- Leave the Kaiser-Friedrich-Ring (B54) and turn right into the Bahnhofstraße.
- Leave the Bahnhofstraße and turn left into the Rheinstraße (L3037).
- After 30 km and 24 minutes you reached the Rheinstraße 20 in Wiesbaden.

### PARKING

For downtown parking you will find a number of public parking garages; a modern guiding system leads directly to the free parking possibilities. Visitors arriving by car will find a total of 5.106 parking spaces in the 11 parking garages located in downtown Wiesbaden.

The nearest parking place to the Rhein-Main-Hallen is the "Theater"-Parking-Garage which is open 24 hours a day. The next parking place is the "Markt/Rathaus"-Garage 10 minutes walking distance to the Rhein-Main-Hallen. Parking-Fees will be charged.



Parkmöglichkeiten: Achten Sie bei Ihrer Anfahrt auf das **Wiesbadener Parkeitsystem**.  
Parking:  Look out for the **electronic guiding system** which signposts vacant parking spaces within the city.

 **Rhein-Main-Halls/ FILTECH 2009**

## PUBLIC TRANSPORT TICKET

FILTECH 2009 Congress delegates receive a "RMV-KongressTicket" together with their registration confirmation. This tickets entitles to free rail travel between Frankfurt International Airport (FRA) Railway Station and Wiesbaden Central Station and return (in suburban/regional trains – S8/S9) plus unlimited free travel on the Wiesbaden public transport bus and regional train services from October 12-15, 2009.

## HOTEL RESERVATION

The Wiesbaden Tourist Service will handle your hotel booking quickly and efficiently. The choice of accomodations ranges from the family type guest house to the luxury hotel. You can easily book by returning the hotel reservation form for FILTECH 2009 participants. If you have any queries concerning hotels/accommodation or any other kind of tourist information please contact:

Wiesbaden Congress & Tourist Service - Hotel Reservation  
PO Box 38 40  
65028 Wiesbaden - Germany  
Phone: +49 6129 / 1729-777  
Fax: +49 6129 / 1729-701  
E-Mail: [tourist-service@wiesbaden.de](mailto:tourist-service@wiesbaden.de)

Please mention FILTECH when making direct hotel or tourist information bookings. If you prefer an individual booking detailed hotel information is also available at [www.wiesbaden.de](http://www.wiesbaden.de)

## WIESBADEN TOURIST INFORMATION

Upon your arrival in Wiesbaden the Wiesbaden Tourist Service Office will be pleased to be at your service for tourist information, sightseeing and onsite hotel reservation. The tourist office is situated right in the City Centre. easy to find and just a short walking distance from the Rhein-Main-Halls.

Wiesbaden Tourist Service  
Marktplatz 1  
65183 Wiesbaden – Germany

### Opening Hours:

Mon-Fri 10 am – 6 pm  
Sat 9 am – 3 pm

## TAXI SERVICES

[www.taxiwiesbaden.de](http://www.taxiwiesbaden.de) Phone: +49 611 333333  
[www.taxi-444444.de](http://www.taxi-444444.de) Phone: +49 611 444444

## CASH MACHINES

You can conveniently withdraw cash using Maestro and international credit cards just a short distance from the Rhein-Main-Halls. Cash Machines can be found in banks at Bahnhofstraße and Friedrich Ebert Allee/Wilhelmstraße.

## SHOPPING & LEISURE

The Rhein-Main-Halls are conveniently situated in the City Centre where you will find specialist stores, department stores, supermarkets, museums and a broad variety of coffee shops, restaurants and of course the Casino Wiesbaden.



### HOTEL RESERVATION

For all queries contact

☎ +49 (0)611 / 1729-777

E-mail: [tourist-service@wiesbaden.de](mailto:tourist-service@wiesbaden.de)

Web: [www.wiesbaden.de](http://www.wiesbaden.de)

**TO BE RETURNED BY SEPTEMBER 8, 2009**

Return to:

**Wiesbaden Congress & Tourist Service  
Hotel Reservation**

**PO Box 60 50**

**65050 Wiesbaden – Germany**

**Fax: +49 (0)611 1729-701**

Company

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Contact Person:

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Address

---

Post Code/City

---

Phone/Fax

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E-mail

---

Credit Card /valid until (month/year)

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Credit Card-No.

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### Please reserve for:

Mrs. \_\_\_\_\_ / Mr. \_\_\_\_\_

\_\_\_\_\_ **Single room/s**

\_\_\_\_\_ **Double room/s**

Arrival: \_\_\_\_\_

Departure: \_\_\_\_\_

- Price Category 1**  
Price per person € 140.00 up to € 300.00
- Price Category 2**  
Price per person € 70.00 up to € 140.00
- Price Category 3**  
Price per person up to € 70.00

**At the following hotel** (turn page for hotel list and prices):

1st choice

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2nd choice

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If the above mentioned hotels will be already booked out, a reservation in a hotel which is of a comparable standard will be made.

Rates per person per night, breakfast, service charge and VAT included.

Your hotel reservation is binding. The Wiesbaden Tourist Service will only act as agent and can not accept any liability for the service rendered. The general terms and conditions for the hotel business shall be applicable.

The confirmed reservation shall be binding for both the provider as well as for the guest. The guest/client will be liable for payment of the accommodation rate even though it has not been made use of – or for the reserved accommodation which was not cancelled in due time. The room will be reserved on the booked day of arrival until 18.00 hours. In case of later arrival the hotel should be informed of the expected delay. Otherwise the room may be re let.

With submitting this binding room reservation, it is understood by the client, that the requested accommodation will not be definitely available. Also please advise as to the rate category required.

Date

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Company stamp / Signature

### Price Category 1

### All Prices in Euro per Person

<b>1 Dorint Pallas Wiesbaden</b> 5-star hotel - walking distance approx. 3 min	single room	bath/shower/WC	€ 175.00
	double room	bath/shower/WC	€ 205.00
The price for the buffet breakfast is €22.00 per person/per day extra			
<b>2 Hotel Klee am Park</b> good middle class hotel - walking distance approx. 10 min The price for the buffet breakfast is € 16.00 per person/per day extra	single room	shower/WC	€ 128.00
	double room	shower/WC	€ 158.00
<b>3 Hotel Oranien</b> 4-star hotel - walking distance approx. 15 min	single room	bath/shower/WC	€ 140.00
	double room	bath/shower/WC	€ 165.00

### Price Category 2

### All Prices in Euro per Person

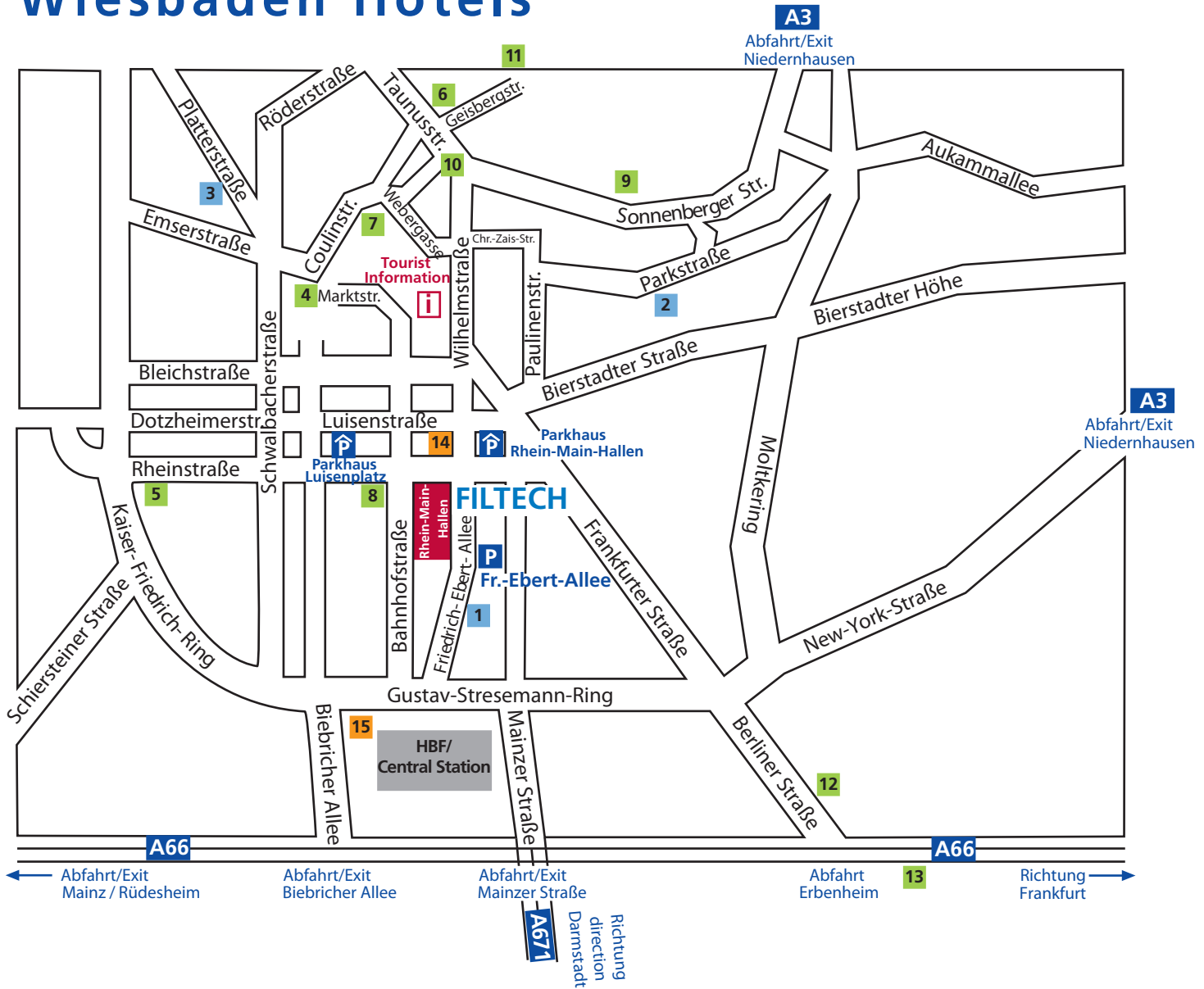
<b>4 ACHAT Hotel City Wiesbaden</b> 3-star hotel - walking distance approx. 10 min	from 12.-13.10.2009	single room	shower/WC	€ 108.00
	from 13.-15.10.2009	single room	shower/WC	€ 133.00
<b>5 Hotel Alexander</b> middle class hotel - walking distance approx. 10 min	single room	shower/WC	€ 120.00	
	double room	shower/WC	€ 150.00	
<b>6 Hotel Am Kochbrunnen</b> 3-star hotel - walking distance approx. 15 min	single room	shower/WC	€ 89.00	
	double room	shower/WC	€ 98.00	
<b>7 Hotel Bären</b> 3-star hotel - walking distance approx. 10 min	single room	shower/WC	€ 105.00	
	double room	shower/WC	€ 140.00	
<b>8 Best Western Hansa Hotel</b> 3-star superior hotel - walking distance approx. 2 min	single room	shower/WC	€ 118.00	
	double room	shower/WC	€ 148.00	
<b>9 City Partner Hotel Fürstenhof</b> middle class hotel - walking distance approx. 20 min	single room	shower/WC	€ 98.50	
	double room	shower/WC	€ 132.00	
<b>10 Hotel Ibis Wiesbaden City</b> 2-star hotel - walking distance approx. 10 min	single room	shower/WC	€ 109.00	
	double room	shower/WC	€ 129.00	
<b>11 Hotel Klemm</b> 3-star hotel - walking distance approx. 15 min	single room	shower/WC	€ 105.00	
<b>12 Penta Hotel</b> 4-star hotel - approx. 5-7 min by car	single room	bath/shower/WC	€ 110.00	
	double room	bath/shower/WC	€ 120.00	
<b>13 Ramada Hotel Nordenstadt / Wsb.-Nordenstadt</b> single room 3-star hotel - approx. 10-15 min by car	single room	€ 111.00		
	double room	shower/WC	€ 126.00	

### Price Category 3

### All Prices in Euro per Person

<b>14 Hotel Jägerhof</b> 2-star hotel - walking distance approx. 5 min	single room	shower/WC	€ 55.00	
	double room	shower/WC	€ 85.00	
<b>15 Motel One Wiesbaden</b> middle class hotel - walking distance approx. 5-10 min	from 12.-13.10.2009	single room	shower/WC	€ 66.50
	from 13.-15.10.2009	single room	shower/WC	€ 86.50
	single room	shower/WC	€ 86.50	

# Wiesbaden Hotels



## Price Category 1

- 1 Dorint Pallas Wiesbaden
- 2 Hotel Klee Am Park
- 3 Hotel Oranien

## FILTECH VENUE

**Rhein-Main-Hallen**  
**Rheinstr. 20**  
**65185 Wiesbaden**  
**www.rhein-main-hallen.de**

## Price Category 2

- 4 Achat Hotel City-Wiesbaden
- 5 Hotel Alexander
- 6 Hotel Am Kochbrunnen
- 7 Hotel Bären
- 8 Best Western Hotel Hansa
- 9 City Partner Hotel Fürstenhof
- 10 Hotel Ibis Wiesbaden City
- 11 Hotel Klemm
- 12 Pentahotel Wiesbaden
- 13 Ramada Hotel Wi-Nordenstadt

## Price Category 3

- 14 Hotel Jägerhof
- 15 Motel One

### PARKMÖGLICHKEITEN:

Parkhaus Rhein-Main-Hallen 1060 Plätze  
 Parkhaus Luisenplatz 320 Plätze

### PARKING:

Park garage Parkhaus Rhein-Main-Hallen 1060 spaces  
 Park garage Parkhaus Luisenplatz 320 spaces

Wiesbaden Tourist Service  
 Marktplatz 1  
 65183 Wiesbaden  
 Telefon +49 (0) 611 17 29 777  
 Telefax +49 (0) 611 17 29 701  
 E-Mail: [tourist-service@wiesbaden-marketing.de](mailto:tourist-service@wiesbaden-marketing.de)  
[www.wiesbaden.de](http://www.wiesbaden.de)