

**? WHO  
SHOULD  
ATTEND**

Directors, CEOs | Association presidents | Vice Presidents and professionals | Chemistry Researchers & Academicians | Chemistry Scientists | Clinical Services Managers | Healthcare Workers, Druggist | Drug developers | Research Laboratories | Drug development companies | Research Institutes and members | Supply Chain companies | Chemistry Startup companies | Manufacturing Companies | Training Institutes | Business Entrepreneurs and Students | Young Investigators

**2<sup>ND</sup>**  
**ADVANCED  
CHEMISTRY  
WORLD CONGRESS**

**JUNE 14-15, 2021**

**BERLIN,  
GERMANY**

**2**

**DAYS WITH MORE  
THAN 45 SESSIONS,  
KEYNOTES & TALKS**

**12+**

**INNOVATIVE  
FEATURED  
SPEAKERS**

**20+**

**HOURS OF  
NETWORKING  
EVENTS**

**60+**

**INTERNATIONAL  
SPEAKERS**

**125+**

**EDUCATIONAL  
SESSIONS**

# Welcome Message

**Dear Colleagues, Researchers, Chemical & Drug Designers and Engineers, Entrepreneurs, Friends,**

**It gives us a genuine pleasure to extend greetings to everyone attending 2nd Advanced Chemistry World Congress planned to be held in Berlin, Germany, in June 14-15, 2021, and to underline how the themes reported in the title represent a key background and a promising input to develop novel fundamental, environmentally friendly industrial, phenomenal medical and unique economic processes.**

**This monumental event features lots of opportunities to network with partners from the entire world in an exciting environment whilst sensing an explosive burst in global chemistry, chemical design & engineering, and translational applications to make innovative and upgraded strategic alliances to secure our environment to be more productive but absolutely clean!**

**We express the hope that the Congress will allow us to hold a fruitful discussion and exchange our views on important aspects of basic, applied and translational chemistry. The latter will gift cross-disciplinary benefit to the inventors in the field. We wish stronger collaboration between Academia, professional Communities, Business and Industry accenting on the interdisciplinary approaches across different research fields and application products.**

**The Congress will provide an excellent opportunity for all delegates to present their research while sharing knowledge in a wide scope of areas of Science and Technology and the ideal forum to stimulate ideas and establish collaborations as well as to initiate intense discussions to secure projects of the newest generations and to feature a highly interactive, stimulating and multidisciplinary Program.**

**We hope that you will be able to get some glimpses of the greatest Berlin and hope also that your interaction with your colleagues will induce a creative exchange of ideas and will be personally rewarding!**



**Sergey Suchkov**

*Professor, Director, Center for Personalized Medicine, Sechenov University, Moscow, Russia*



**Andrew Miller**

*Director, the EU-funded Project FIT, Brussels, EU; Professor of The Veterinary Research Institute in Brno, Czech Republic; the Director of The Imperial College Genetic Therapies Centre and Professor at King's College London; CSO of KP Therapeutics Ltd, London, UK*

# PRESENTATION FORUM

## KEYNOTE FORUM / MINI-PLenary SESSIONS

Presentations under Keynote Forum or Mini-Plenary Sessions includes abstracts with remarkable research value selected by the program committee. These significant speeches are delivered by globally recognized honorable speakers and it is open to all registrants.

## DISTINGUISHED SPEAKERS FORUM (ORAL ABSTRACT SESSIONS)

In this forum, speakers and experts of the research field gets an opportunity to showcase their noble research work that involves comprehensive research findings. These formal oral presentations include a wide range of talks covering basic research to advanced research findings in accordance to the theme and scientific sessions of the conference.

## STUDENT FORUM

### POSTER SESSION

This session is particularly introduced to encourage more number of student participation at international conferences, however it is not restricted only to students since it is also available for the participants with language barrier. There are specific guidelines to be followed to prepare the poster. Poster topic should be selected only from relevant scientific sessions with in-depth technical details.

### YOUNG INVESTIGATORS FORUM

An exclusive opportunity for students and young investigators to present their research work through a formal oral presentation. Young Investigators Forum provides a global platform for young researchers and scholars to showcase their valuable contribution to the scientific world and to get acknowledged by the global scientific community of experts. It is an excellent opportunity to recognize young scientific assets with promising research ideas. These oral presentations are of shorter time duration with 10-15 minutes of informative and precise presentations in relevant scientific sessions.

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**TIME TO  
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PEERS**



Register & Participate

in

**ADVANCED CHEMISTRY**

**2021**

**TYPES OF  
ACADEMIC  
REGISTRATIONS**

**SPEAKER  
REGISTRATION**

**COMBO A**  
(Registration + 2 night's accommodation)

**COMBO B**  
(Registration + 3 night's accommodation)

**DELEGATE  
REGISTRATION**





## EDUCATIONAL WORKSHOPS/ RESEARCH WORKSHOPS/CORPORATE WORKSHOPS/MINI- SYMPOSIA

With an aim of transferring knowledge among the participants, workshops are introduced as a part of international conferences. These interactive and occasionally practical sessions gives an opportunity for participants to engage in detail discussion. Workshops are mostly scheduled for 60 to 90-minutes. It may range from learning about a specific topic relevant to international education, products and research which sometimes involves practical demonstration. It helps in enhancing skills, knowledge and understanding of the research field in depth through interactive discussions.

## HIGHLIGHTS OF THE DAY SESSIONS

"Highlights of the Day Sessions" is introduced to discuss and focus a ray upon previous day ORAL ABSTRACT presentations by experts to summarise the key findings. It helps in getting better insights into the various dimensions of the topic.

## EDUCATIONAL SESSIONS/ TRAINING PROGRAMS

Educational Sessions or training programs are specifically designed for a better understanding of the latest findings and technologies. These are generally 45-minute sessions that gives an exposure to the multidisciplinary field, that provides in-depth learning experiences and address educational needs.

## MEET THE PROFESSOR @ NETWORKING SESSIONS

This session involves open discussion between the experts and session attendees, it gives enough time for getting answers to specific questions and doubts. It is an opportunity for attendees to increase their professional networking, sometimes also leads to an excellent collaboration opportunity.

## SCIENTIFIC TRACKS/ SESSIONS

Analytical Chemistry | Agricultural Chemistry | Biochemistry | Chemistry of Transition Elements | Chemical Engineering | Electrochemistry | Environmental Chemistry | Food Chemistry | Forensic Chemistry | Geochemistry | Green Chemistry | Industrial Chemistry | Inorganic chemistry | Nanotechnology | Materials science | Medicinal Chemistry | Metallurgy | Molecular biology | Natural Product Chemistry | Neurochemistry | Organic Chemistry | Petrochemistry | Physical chemistry | Polymer chemistry | Radiochemistry

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## TYPES OF BUSINESS REGISTRATIONS

### SPEAKER REGISTRATION

#### COMBO A

(Registration + 2 night's accommodation)

#### COMBO B

(Registration + 3 night's accommodation)

#### DELEGATE REGISTRATION

## TYPES OF STUDENT REGISTRATIONS

### REGISTRATION

#### YIF

#### COMBO A

(Registration + 2 night's accommodation)

#### COMBO B

(Registration + 3 night's accommodation)

#### POSTERS

## TYPES OF ADDITIONAL REGISTRATIONS

#### Accompanying Person

#### E-Poster

#### Virtual Presentation

#### Workshops

#### Start-Ups



# Concurrent Educational Sessions

## MONDAY, JUNE 14, 2021

### ANALYTICAL CHEMISTRY

- Applications of analytical chemistry
- Chromatography
- Electrochemical analysis
- Hybrid techniques related to analytical Chemistry
- Lab-on-a-chip
- Mass spectrometry
- Microscopy
- Qualitative and quantitative analysis
- Separation
- Spectroscopy
- Thermal analysis

### AGRICULTURAL CHEMISTRY

- Agricultural biotechnology
- Technology and sustainable agriculture best practices
- Climate change impacts, mitigation and adaptation
- Renewable energy sources and sustainable agriculture
- Greenhouses and horticulture
- Agricultural machinery
- Fertilisers and chemicals
- Irrigation and water management
- Nanotechnologies in agriculture

### BIOCHEMISTRY

- Biochemistry methods
- Bioinorganic chemistry
- Biology and pharmacology of chemical elements
- Chemical ecology
- Chemical pathology
- Clinical Biochemistry and Nutrition
- Metabolisms
- Neurochemistry
- physiological biochemistry
- Reagents for biochemistry

### CHEMISTRY OF TRANSITION ELEMENTS

- Characteristics of transition elements
- Electronic configuration
- Chemical formula
- Ligand binding
- causes of colour compounds of transition elements
- complex compound formation
- coordination complexes
- transition metal Dinitrogen complexes

## GROUP PHOTO

## COFFEE BREAK

### CHEMICAL ENGINEERING

- Etymology
- Process design and analysis
- Chemical reaction engineering,
- Heat-transfer equipment
- New concepts and innovations in chemical Engineering
- Nuclear engineering
- Safety and hazard assessments
- Separation columns (distillation, absorption and extraction)

### ELECTROCHEMISTRY

- Bipolar electrochemistry
- Electroanalytical method
- Electrochemical energy conversion
- Electrochemical engineering
- Electrochemical impedance spectroscopy
- Electrochemical potential
- Fuel cells
- Nanoelectrochemistry
- Photoelectrochemistry
- Redox titration

### ENVIRONMENTAL CHEMISTRY

- Radiochemicals
- Aquatic chemistry
- Atmospheric chemistry
- Bioassays and immunoassay
- Environmental measurement and monitoring
- Environmental monitoring
- Environmental quality parameters related to fresh water
- Gravimetric, titrimetric and electrochemical methods
- Pollution

### FOOD CHEMISTRY

- Food engineering
- Food fortification
- Food microbiology
- Food packaging
- Food physical chemistry
- Food preservation
- Food rheology
- Food safety
- Food science
- Food storage
- Food supplements
- Food technology

## LUNCH BREAK

### FORENSIC CHEMISTRY

- Ballistic fingerprinting
- Bloodstain pattern analysis
- Encompasses organic and inorganic analysis
- Fingerprint analysis
- Forensic data analysis
- Forensic toxicology
- Investigating the physical and chemical properties
- Scientific methods for analyzing evidences

### GEOCHEMISTRY

- Aqueous geochemistry
- Biogeochemistry
- Concepts of energy, entropy and fundamental thermodynamics
- Earth crust
- Giant planets
- Isotope geochemistry
- Organic geochemistry
- Petrology
- Photogeochemistry
- Radiogenic isotope geochemistry
- Regional geochemistry

### GREEN CHEMISTRY

- Biocatalysts in organic synthesis
- Bioremediation
- Designing a green synthesis
- Disaster management
- Environmental engineering science
- Environmental pollution
- Green catalysts
- Green chemistry in day-to-day Life
- Green computing
- Green engineering
- Green synthesis
- Sustainable engineering

### INDUSTRIAL CHEMISTRY

- Chemical plants development
- Food microbiology
- Green water treatment
- Industrial photo chemistry
- Industrial water supply
- Petroleum refining and petrochemicals
- Pyrolysis
- Ultrapure water production
- Waste water treatment
- Water treatment using different types of nanomaterials

## COFFEE BREAK

### INORGANIC CHEMISTRY

- Bioinorganic chemistry
- Bioorganometallic chemistry
- Ceramic chemistry
- Cluster chemistry
- Coordination chemistry
- Materials science
- Organometallic chemistry

### MATERIALS SCIENCE

- Biomaterial
- Bioplastic
- Ceramic engineering
- Crystallography
- Metallurgy
- Polymer science and polymer engineering
- Surface science
- Tribology

### MEDICINAL CHEMISTRY

- Chemical synthesis
- Chemicals in medicine
- Drug design
- Drug discovery
- Medicinal inorganic chemistry
- Medicinal radiochemistry
- Natural products
- Pharmacokinetics
- Pharmacology

### METALLURGY

- Archaeometallurgy
- CALPHAD
- Carbonyl metallurgy
- Cupellation
- Experimental archaeometallurgy
- Gold phosphine complex
- Goldbeating
- Metallurgical failure analysis
- Mineral industry
- Pyrometallurgy

# Concurrent Educational Sessions

## TUESDAY, JUNE 15, 2021

### MOLECULAR BIOLOGY

- Central dogma of molecular biology
- Genetic code
- Genome
- Molecular engineering
- Molecular microbiology
- Molecular modeling
- Protein interaction prediction
- Proteome
- Cell biology

### NATURAL PRODUCT CHEMISTRY

- Carbohydrates
- Aromatic compounds
- Terpenoids
- Steroids
- Amino acids, peptides and proteins
- Alkaloids
- Nucleosides, nucleotides and nucleic acids
- Porphyrins
- Aliphatic compounds
- Primary metabolites

### NANOTECHNOLOGY

- Energy applications of nanotechnology
- Environmental benefits of nanotechnology
- Molecular nanotechnology
- Nanobiotechnology
- Nanoelectromechanical relay
- Nanoengineering
- Nanometrology
- Nanometrology
- Nanotechnology in water treatment
- Nanoweapons
- Wet nanotechnology

### NEUROCHEMISTRY

- Molecular neuroscience
- Neuroendocrinology
- Neurogenesis
- Neuroimmunology
- Neuromodulation
- Neuropharmacology
- Neuroplasticity or synaptic plasticity
- Signal transduction

## GROUP PHOTO

## COFFEE BREAK

### ORGANIC CHEMISTRY

- Ethers
- Alcohols
- Aldehydes
- Amine
- Aromaticity
- Carboxylic derivatives
- Chemical Reactivity
- Haloalkanes
- Haloarenes
- Hydrocarbons
- Intermolecular forces
- Ketones
- Nomenclature
- Phenol

### PETROCHEMISTRY

- Advanced oil and gas technologies
- Drilling and well operation technology
- Environmental hazards of petroleum
- Hydraulic fracturing
- Oil refining
- Petroleum engineering and its industrial application
- Petroleum geology and geo-physical exploration

### PHYSICAL CHEMISTRY

- Thermochemistry
- Chemical kinetics
- Quantum chemistry
- Electrochemistry
- Photochemistry
- Surface chemistry
- Solid-state chemistry
- Spectroscopy
- Biophysical chemistry
- Materials science
- Physical organic chemistry
- Micromeritics

### POLYMER CHEMISTRY

- Polymerization Techniques
- Biodegradable Polymers
- Bioplastics
- Biopolymers & Biomaterials
- Ionic chain-reaction and complex coordinative polymerization
- Naturally occurring polymers
- Organic and inorganic polymers
- Polymer Synthesis
- Polymers For Emerging Technologies
- Rheology

## LUNCH BREAK





# 2<sup>nd</sup> Advanced Chemistry World Congress

June 14-15, 2021 | Berlin, Germany

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## Featured Speakers

## Presentation Titles

**Hector M Guevara**

NuEnergy Technologies Corp,  
USA

Highly-Efficient Thermoelectronic Conversion of Solar Energy and Heat into Electric Power With Special Consideration for the Integration and use of Graphene Membranes with the Hydrogen Output from our Turbine, for the desalinization and production of Potable WATER As Designed, Reviewed, and Postulated by H.M. Guevara

**Ramesh N. Patel**

SLRP Associates, USA

Biocatalysis: Production of Chiral Intermediates and Active Pharmaceutical Ingredients (API's)

**Phuong Nguyen-Tri**

Université du Québec à Trosi-  
Rivieres, Canada

Nanoscale characterization of polymer crystallization

**Franz-Josef Meyer-Almes**

University of Applied  
Sciences Darmstadt,  
Germany

Protein-ligand binding kinetics

**Jan W Dobrowolski**

AGH University of Science  
and Technology, Poland

Lifelong Learning for Common Action of Experts and Society Promoting Innovative Green Chemistry for Bioeconomy-based Sustainable Development

**Jan W Dobrowolski**

AGH University of Science  
and Technology, Poland

Innovative biomimetic green chemistry for construction resistance to earthquake, strong wind and climate change

**Hanumantha Rao Kota**

Norwegian University of Science  
and Technology, Norway

Novel green biosurfactants in froth flotation for the recovery of base metals from sulphide ores

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**Advanced Chemistry 2021**

**SPEAKER SLOTS  
AVAILABLE**



**Alexander O. Terent'ev**

Russian Academy of  
Sciences, Russian Federation

Hydrogen peroxide as green reagent in organic synthesis

**K Volcho**

Novosibirsk Institute of  
Organic Chemistry, Russia

Tdp1 Inhibition as a Promising Approach to New Antitumor  
Drugs

**V Perminov**

Tomsk Polytechnic University  
Russia

Mathematical modeling of forest fires initiation and spread

**Evgenii Krasikov**

National Research Centre  
Kurchatov institute, Russia

Interaction of hydrogen with nanoscale structures in irradiated  
steel

**I Gablina**

Geological Institute of  
the Russian Academy of  
Sciences, Russia

Geochemical formation conditions of polymetallic sulfide ores

**Joe Shapter**

University of Queensland,  
Australia

Enhancing Solar Cells using Nanomaterials

**John Owen Roberts**

Open University, UK

Condensed Matter Nucleosynthesis Phase Transitions via the  
Roberts-Janet Nuclear Periodic Table

**Saeed Farrokhpay**

University of Lorraine, France

Using rheology data to understand mineral flotation process  
performance

**Andrea Cormano**

Baselice (BN), Italy

Chemicals and Multiple Chemical Sensitivity (MCS)

**Bartolome Ribas-Ozonas**

Royal National Academy of  
Pharmacy, Spain

Synergism in physiological effects between low  
electromagnetic fields (ELMF) and heavy metals (Hg,Pb) on  
mice cerebral structures

**Chibao Huang**

Zunyi Normal University,  
China

A Two-Photon Fluorescence Probe for Zinc Ions in Live Cells  
and Tissues with Large Two-Photon Action Cross Section

**Boris Minaev**

Bohdan Khmelnytsky National  
University, Ukraine

Theory and Calculation of the Phosphorescence Phenomenon



**Christo Boyadjiev**

Bulgarian Academy of  
Sciences, Bulgaria

Reaction Kinetics in Chemical Engineering

**TURCU Carmen Veronica**

Politehnica University of  
Bucharest, Romania

Influence of organic additives on rheological properties of  
some drilling muds

**Musa M. Musa**

King Fahd University of  
Petroleum and Minerals,  
Saudi Arabia

Deracemization and Stereoinversion of Secondary Alcohols  
Using a Single Enzymatic Approach

**Moustafa Khalifa**

Ministry of Health, Kuwait

Analysis of three synthetic phosphodiesterase type -5( PDE-5) inhibitors and some of their analogues illegally adulterated in herbal products using High Performance liquid Chromatography –Photodiode Array combined with Electrospray Ionization –Mass Spectrometry.

**Ahmed M Omer**

SRTA-City, Egypt

Development of pH-sensitive microcapsules based-  
biopolymers as oral drug delivery system

**L. Azaroual**

Abdelmalek Essaâdi  
University, Morocco

Development of new methods extraction and analysis for the  
determination of Aloin from Aloe Vera leaf

**M Sarojadevi**

Anna University, India

Quinoline containing cyanate ester/epoxy blends and their  
properties

**D K Belsare**

Bhopal University, India

Bioeconomic Perspectives for Sustainable Development of  
Melghat Region

**Annapurna Boruah**

University of Petroleum and  
Energy Studies, India

Kerogen Kinetics and Current Trend in Pyrolysis of Gas Shales

**Tzu-Yu Tseng**

Chung Yuan Christian  
University, Taiwan

Effect of Halogen Atom Substitution on the Luminescent  
Properties of Imidazole-based Materials

**Mahdi Hadi**

Tofigh Daru Research &  
Engineering Company, Iran

The optimization of porous collagen Nano scaffold on  
cultured human chondrocytes in cartilage tissue engineering

**S. khamenehasl**

University of Tabriz, Iran

Synthesis and photo electrochemical activity of Titanium  
dioxide / Copper oxide / graphene Nano composites

**H Saiah**

Hassiba Benbouali University

Identification and wound healing activity of polyphenols extracted from Jujube leaves with high-performance liquid chromatography coupled with mass spectrometry detection (HPLC-PDA-ESI-MS) high-performance liquid chromatograph

**Nezha Sekkal-Taleb**

University of Djillali Liabes of Sidi bel Abbas

A docking molecular calculations on D - Mannose for the treatment of urinary infection caused by e-Coli bacteria

**S Brahim**

University of Saida

Computational Study of the Electronic Absorption Spectra of Ni(II), Pt(II) and Pd(II) Photosensitizers Complexes Used in Sensitized Solar Cells (DSSC).

**S.M.L. Seddiki**

University center of Naâma

Biofilm formation and resistance of emerging strains of Candida nonalbicans to conventional antifungal agents

**Nadia Benzidane**

Setif 1 University

In Vitro Bronchorelaxant Effects of Capparis Spinosa Aqueous Extracts on Rat Trachea

**A A Motallebi Moghanchoghi**

Islamic Azad University

Isolation and identification of antibacterial steroid compounds from Ulva fasciata in the Persian Gulf

**Pourya Zarshenas**

Shahid Beheshti University

A Triazol containing Uio-type metal-organic framework as highly efficient CO<sub>2</sub> capture and catalytic conversion

**R A Yossa Kamsi**

University of yaounde

Computational study of reactivity and solubility of Rubescin D and E molecules in gas phase and in solvent media using Hartree-Fock and DFT methods

**Topwe Milongwe Mwene-Mbeja**

University of Lubumbashi

Enzymatic reactions in the production of biomethane from organic waste

**Amina Boussadia**

University Oran1 Oran, Algeria

Salvia officinalis treatment on Aluminum induced neurotoxicity



*Contact Us*

Program Director | Advanced Chemistry 2021

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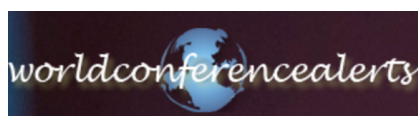
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**SPEAKER  
SLOTS  
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# NETWORKING...CONFERENCING...FOSTERING

ATTENDING A CONFERENCE ISN'T ALL  
ABOUT LEARNING AND NETWORKING

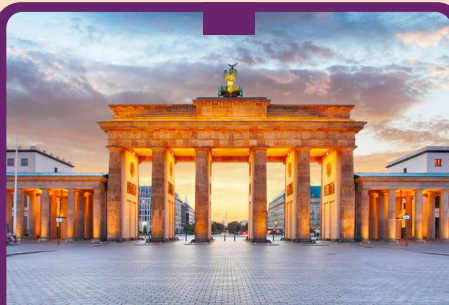
## DISCOVERING

A NEW PLACE , PEOPLE AND CULTURE

A right choice of conference destination is an important aspect of any international conference and keeping that in consideration, Advanced Chemistry 2021 is scheduled in the Beautiful city "Berlin".



Berlin Cathedral Church



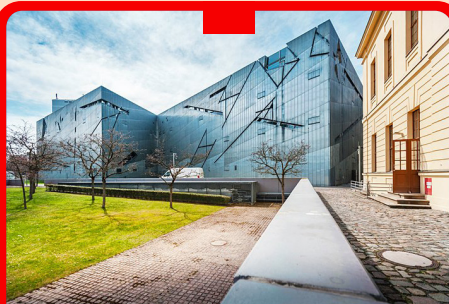
Brandenburg Gate



Gendarmenmarkt



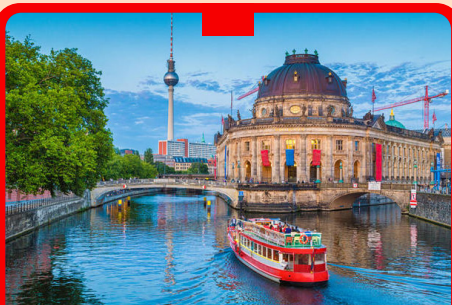
German Museum of  
Technology



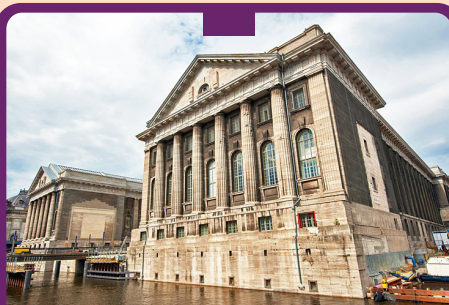
Jewish Museum Berlin



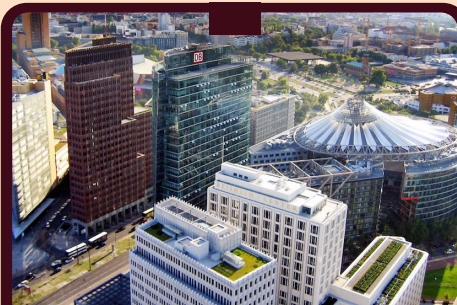
Kaiser Wilhelm  
Memorial Church



Museum Island



Pergamon Museum



Potsdamer Platz



Reichstag



The Berlin Wall Memorial  
and Documentation Centre



The Humboldt Forum



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