

**RILEM symposium
CONMOD'2014 Final Program**



October 12-14, 2014

Tsinghua University, Beijing, China

CONMOD2014: Aim and scope

Research on concrete materials is located in a highly interdisciplinary field between civil engineering and materials science, involving broad topics from physico-chemistry, microstructure, properties characterization, material and structural mechanics to life cycle engineering. Modeling is a vehicle to transfer the knowledge from scientists to engineers. The rapid development in computational techniques has promoted substantially this knowledge transfer, bring out such advanced modeling techniques as molecular dynamics simulations and lattice Boltzmann methods. These models, reinforced by the computer-based techniques, can greatly help the design and evaluation of concrete materials and structures in the context of life cycle engineering. To embrace the most recent advancement in the modeling of concrete materials and structures is the scope of this RILEM symposium.

The modeling is of particular interest for the scientific and engineering communities in China since the country is undergoing the largest scale infrastructure construction, leading the concrete production and consumption in the world. The huge need of knowledge transfer attributes particular significance to this symposium hosted in China. A successful knowledge transfer to concrete technology and construction industry can both promote the technology and reduce the undesirable environmental impact associated with the production and use of concrete materials.

CONMOD'2014 is the fourth in a series of RILEM symposia after Quebec City, Canada (2006) and Delft, The Netherlands (2008) and Lausanne, Switzerland (2010). CONMOD conferences provide a platform for researchers active in modeling of concrete at different length scales, and from different disciplines. Also, this series of conference offer an exchange platform for the PhD students conducting research on concrete materials. It is expected that these PhD students, during their 3-4 years program, can at least attend one CONMOD conference and benefit from the exchange and communication opportunities.

CONMOD'2014 has gathered participants from 15 countries, and collected 61 papers in the proceedings. The papers are divided into five main topics: Hydration and microstructure, Properties characterization, Transport process, Shrinkage and creep, and Durability. These papers treat both the most recent development in modeling techniques and the new knowledge on concrete materials. The organizing committee would like to thank the support of RILEM Bureau and the steering committee for the organization, and also the sponsors of this symposium, the Chinese Silicate Society (CSC) and the Asian Concrete Federation (ACF), for their help to promote the participation of this event. Last, we would like also to express our sincere appreciation to the keynote speakers and all the participants to make CONMOD'2014 a successful event.

Prof. Kefei Li, and Prof. Peiyu Yan
Chairmen of CONMOD'2014 Organizing Committee
September 2014, Beijing, China

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Campus Orientation

Situation

CONMOD will be held on the campus of Tsinghua University, situated in the northern-west part of Beijing city between the 4th and 5th ring roads, and about 15km from the ancient Beijing city center. The situation is convenient for both road and public transport (Bus and subway).

Subway: *Line 4 Station Yuan Ming Yuan (Exit B); Line 13 Station Wu Dao Kou*

Road transport (from Beijing Capital Int'l airport):

Highway S12 to 4th Ring Road, Exit No. 46 (Zhongguancun)

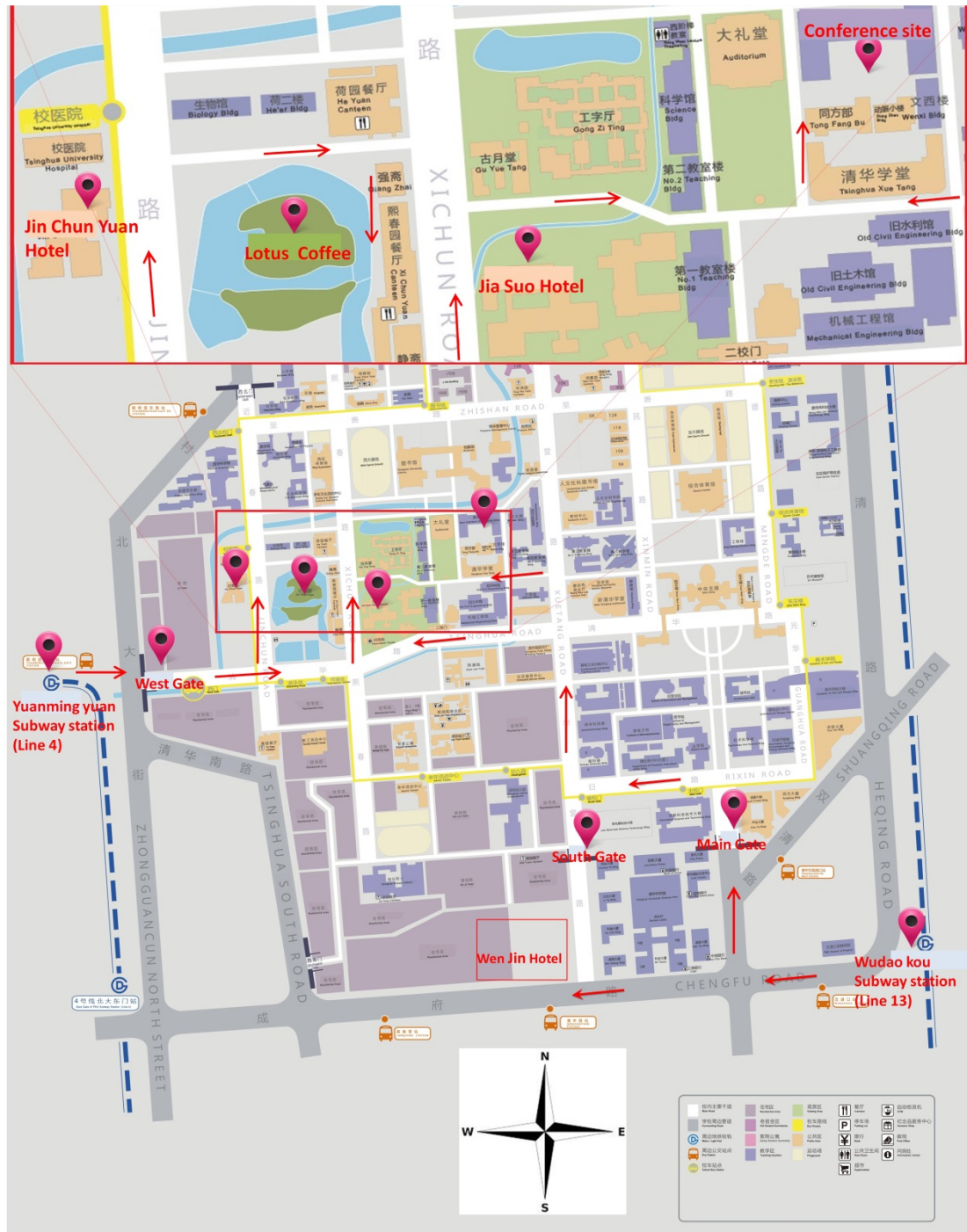
Tsinghua Campus

Tsinghua University, founded in 1911, is a leading university in science and technology in China. Its 19 schools and 56 departments occupy a campus of 389 hectares, covering wide-spread disciplines of science, technology, medicine, law, literature and art. The enrolled students amount to 41,000 with 15,000 undergraduates and 26,000 graduates. The personnel include 6,000 faculty members and 1,300 postdoctoral fellows, among which are 41 members of China Academy of Science (CAS) and 33 members of China Academy of Engineering (CAE).



The Department of Civil Engineering, formally founded in 1926, is one of the oldest departments of Tsinghua University. Today, the civil engineering disciplines are grouped into Civil Engineering School, including Structural Engineering, Geotechnical Engineering, Hydraulic Structural Engineering, Hydrology and water resources, Construction Management, Disaster Prevention and Mitigation, and Building Materials. The School has 1,700 students (850 undergraduates and 850 postgraduates) and 171 staff members (140 faculty members, 8 CAS/CAE members).

Campus Map for CONMOD'2014



Reception:	Lotus Coffee
CONMOD Symposium:	Hydraulic Building 407
Symposium hotels:	Jin-Chun-Yuan hotel, Jia-Suo Hotel
Lunch/Buffer break:	Jin-Chun-Yuan Hotel
Symposium banquet:	Jin-Chun-Yuan Hotel

Symposium Program (final)

October 11, 2014 (Saturday)

14:00-20:00 Registration, Jin-Chun-Yuan Hotel
19:00-21:00 Symposium reception, Lotus Coffee

October 12, 2014 (Sunday)

8:30-17:30 CONMOD2014 Registration Registration counter, Conference hall

Opening session (Conference Hall, Hydraulic Building 407)

9:00-9:10 Welcome address
9:10-9:30 Opening address

Session 1 - Keynote session (Conference Hall, Hydraulic Building 407)

Chair: Kefei Li

9:30-10:15 Microstructural modeling: State-of-the-art and Perspective
Prof. Karen Scrivener, EPFL, Switzerland

10:25-10:40 **Tea/Coffee break**

10:40-11:25 Quantitative evaluation structure of cement paste
Prof. Hamlin Jennings, MIT, United States

11:35-12:20 Numerical simulation of chloride migration in concrete structures under harsh environmental conditions
Prof. Tetsuya Ishida, The University of Tokyo, Japan

12:30-13:30 **Lunch/Buffer Break** (JinChunYuan Hotel)

Session 2a - Hydration and Microstructure (Conference Hall, Hydraulic Building 407)

Chair: Peiyu Yan, Tetsuya Ishida

13:30-13:55 Session keynote: A combined kinetic and thermodynamic approach for modelling the pore solution of PC- fly ash cements (015-04)
Nicolas Eroukhmanoff* and A. Al-Tabbaa, University of Cambridge, UK

13:55-14:15 Molecular dynamics simulation of elastic properties of tobermorite family (056-14)
Shahin Hajilar and Behrouz Shafei*, University of Massachusetts, Amherst, USA

14:15-14:35 Study on the effect of particle size distribution and Blaine fineness on the hydration of cement (037-10)
Shiju Joseph and Shashank Bishnoi*, Indian Institute of Technology, India

14:35-14:55 Influence of the particle size distribution on hydration kinetics: a mechanistic analytical approach (039-11)
Tulio Honorio*, Benoit Bary and Farid Benboudjema, CEA, France

14:55-15:15 Modelling of hydration of ultra high performance concrete (048-12)
Xiaoyong Wang *, Kangwon National University, Korea

- 15:15-15:35 A generalized scale factor model for Portland cement hydration (006-05)
Xueyu Pang*, Halliburton, USA
- 15:35-15:55 Simulation of force between calcium silicate hydrate nanoparticles based on Navier-Stokes equation (024-08)
Zhen He*, Gengxin Cao and Qiao Zheng, Wuhan University, China

15:55-16:10 **Coffee/Tea Break**

Session 2b - Hydration and Microstructure (Conference Hall, Hydraulic Building 407)

Chair: Peiyu Yan, Tetsuya Ishida

- 16:10-16:30 Influence of microstructural parameters on effective diffusivity of hydrating cement paste (027-09)
Neven Ukrainczyk* and Eduardus A.B. Koenders, Delft University of Technology, The Netherlands
- 16:30-16:50 Hydration kinetics model of supersulfated cement (010-06)
Lu Wang *, Shuhua Liu, Gao Yuxin and Baoying Yu, Wuhan University, China
- 16:50-17:10 Computer simulation of the packing of digitized reactive magnesia particles (016-07)
Mingzhi Wang* and A. Al-Tabbaa, University of Cambridge, UK
- 17:10-17:30 A two-dimensional wave propagation method for tortuosity analysis of pore structure (078-15)
Deqing Xie*, Peng Zhao, Lin Yang and Yunsheng Zhang, Southeast University, China
- 17:30-17:50 The influence of digital resolution on the cement paste percolation based on CEMHYD3D model (081-16)
Cheng Liu*, Yunsheng Zhang, Southeast University, China
- 17:50-18:10 Numerical construction of interfacial transition zone around platonic particles (077-17)
Zhigang Zhu, Huisu Chen*, Southeast University, China

19:00-20:30 **Conference Dinner** (JinChunYuan Hotel)

October 13, 2014 (Monday)

9:00-17:30 CONMOD2014 Registration (Registration counter, Conference hall)

Session 3 - Shrinkage and Creep

(Conference Hall, Hydraulic Building 407)

Chair: Karen Scrivener, Ya Wei

9:00-9:25 Session keynote: Modelling shrinkage and thermal deformations in high performance concrete at early age (029-18)

Mateusz Wyrzykowski*, Dariusz Gawin and Pietro Lura, Swiss Federal Laboratories for Materials Science and Technology, Switzerland

9:25-9:45 Constitutive law for the viscoelastic behaviour of early age concrete in massive structures (013-25)

Wibke Hermerschmidt* and Harald Budelmann, iBMB, Technische Universität Braunschweig, Germany

9:45-10:05 Early age creep and relaxation modelling of concrete under tension and compression (054-23)

B. Delsaute* and S. Staquet, ULB, BATir Brussels, Belgium

10:05-10:25 Homogenization of solidifying porous media: Application to ageing creep of concrete (012-24)

J. Sanahuja*, EDF R&D, France

10:25-10:40 **Coffee/Tea break**

10:40-11:00 Drying and shrinkage behavior of Portland cement mortar at intermediate but constant hydration degree (042-21)

G. Pham, A. Bauland, A. Delaplace, Q-H. Vu and R. Barbarulo*, Lafarge Research Center, France

11:00-11:20 Compressive strength, shrinkage and mass loss during simultaneous hydration and drying of concrete: experimental and modeling results (043-22)

B. Huet, A. Delaplace, G. Pham and R. Barbarulo*, Lafarge Research Center, France

11:20-11:40 Drying shrinkage effect on cracking and structural strength of reinforced concrete structures (052-26)

A. Michou*, A. Hilaire, C. Desodt, F. Benboudjema, G. Nahas, P. Wyniecki and Y. Berthaud, LMT-Cachan, ENS Cachan, CNRS, Universud Paris PRES, France

11:40-12:00 Role of creep on the microstructural damage induced by alkali-silica reaction (082-27)

Alain B. Giorla, Cyrille F. Dunant* and Karen L. Scrivener, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

Special talk

12:00-12:10 **Introduction to Asian Concrete Federation (ACF)**

Tamon Ueda, ACF President, Hokkaido University, Japan

12:30-13:30 **Lunch/Buffer Break**

(JinChunYuan Hotel)

Session 4a – Properties

(Conference Hall, Hydraulic Building 407)

Chair: Hamlin Jennings, Jun Zhang

- 13:30-13:55 Session keynote: Micromechanics of ITZ-Aggregate interaction in concrete: Crack initiation (030-29)
Markus Königsberger, Bernhard Pichler and Christian Hellmich*, Vienna University of Technology (TU Wien), Austria
- 13:55-14:15 Effect of microstructural parameters on simulation of mechanical properties (046-35)
Shashank Bishnoi*, Quang-Huy Do and Karen L. Scrivener, Indian Institute of Technology Delhi, New Delhi, India
- 14:15-14:35 Numerical modelling of water isotherms of cement paste: Bridging the gap between the capillary and C-S-H gel pores (002-30)
M. Zalale, P.J. McDonald and K.L. Scrivener*, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland
- 14:35-14:55 Nanoindentation Mapping of Mechanical Properties of Cement Paste Blended with Slag (032-31)
X. Gao and Y. Wei*, Tsinghua University, Beijing, P.R. China
- 14:55-15:15 Estimation of elastic properties of cement based materials at early age based on a combined numerical and analytical multiscale micromechanics approach (040-32)
Tulio Honorio*, Benoit Bary and Farid Benboudjema, CEA, France
- 15:15-15:35 A Coupled Transport-Reaction Model for Simulating Autogenous Self-healing in Cementitious Materials (022-19)
Haoliang Huang*, Guang Ye and Denis Damidot, Microlab, Delft University of Technology, the Netherlands
- 15:35-15:55 First-principles study of water adsorption and dissociation on β -C₂S(100) surface (044-34)
Qianqian Wang*, Yanhua Guo, Hegoi Manzano, Iñigo Lopez-Arbeloa, Xiaodong Shen and Feng Li, State Key Laboratory of Materials-Oriented Chemical Engineering, Nanjing Tech University, Nanjing, P.R. China
- 15:55-16:10 **Coffee/Tea break**

Session 4b – Properties

(Conference Hall, Hydraulic Building 407)

Chair: Hamlin Jennings, Jun Zhang

- 16:10-16:30 Prediction of the water vapour sorption isotherms and microstructure of hardened Portland cement pastes (050-36)
James M. de Burgh*, Stephen J. Foster and Hamid R. Valipour, Centre for Infrastructure Engineering and Safety, UNSW, Australia
- 16:30-16:50 Methods for green concrete design (017-38)
David García*, Jorge S. Dolado and José-Tomás San-José, TECNALIA Research & Innovation, Spain
- 16:50-17:10 Prediction of strength of mortars containing fly ash (084-40)
Amarpreet Kaur*, Shiju Joseph and Shashank Bishnoi, Indian Institute of Technology Delhi, India

- 17:10-17:30 Simulation on mechanical behavior of concrete with hexagon recycled coarse aggregate in random distribution (041-33)
Jianzhuang Xiao*, Zhuangbin Lin, Kaijian Zhang and Chang Sun, Tongji University, China
- 17:30-17:50 Simulation of the development of pH in pore solution of slag cement paste at early age (079-37)
Peng Gao*, Guang Ye, Jiangxiong Wei and Qijun Yu, South China University of Technology, P.R. China
- 19:00-21:00 **Symposium Banquet** (JinChunYuan Hotel)

October 14, 2014 (Tuesday)

- 9:00-17:30 CONMOD2014 Registration (Registration counter, Conference hall)

Session 5 – Transport (Conference Hall, Hydraulic Building 407)

Chair: Patrick Dangla, Rongwei Yang

- 9:00-9:25 Session keynote: 3D simulation of cement paste ageing due to reactive transport (026-41)
Neven Ukrainczyk* and Eduardus A.B. Koenders, Delft University of Technology, Delft, The Netherlands
- 9:25-9:45 Hydration Simulation of Ternary Blended Cement (051-13)
Zhijun Tan, Geert De Schutter*, Guang Ye, Yun Gao and Lieven Machiels, Magnel Laboratory for Concrete Research, Ghent University, Belgium
- 9:45-10:05 Statistical Study of Existing Chloride Ingress Models in Immersed Concretes (067-50)
Sylvain Pradelle*, Mickaël Thiéry and Véronique Baroghel-Bouny, Université Paris-Est, IFSTTAR, France
- 10:05-10:25 Modelling of chloride ion transport in mortars considering electrokinetics behaviors at pore walls (035-45)
Yuya Takahashi*, Yogarajah Elakneswaran and Tetsuya Ishida, Graduate School of Engineering, The University of Tokyo, Japan
- 10:25-10:40 **Coffee/Tea Break**
- 10:40-11:00 Application of pore-scale reactive transport model to study the influence of pore network characteristics on calcium leaching in cementitious systems (049-47)
Conference Hall
Ravi A. Patel*, Janez Perko, Diederik Jacques, Geert De Schutter, Guang Ye and Klaas Van Breugel, Belgian Nuclear Research Centre (SCK-CEN), Belgium
- 11:00-11:20 Multi-scale modelling of the evolution of the transport properties of cement pastes subject to leaching and carbonation (023-48)
N. Seigneur*, A. Dubus, P.E. Labeau, V. Detilleux, O. Destin and A. Dauzères, Université Libre de Bruxelles, Belgium
- 11:20-11:40 Micromechanics modeling the solute diffusion in unsaturated hardened cement

- paste (065-49)
Rongwei Yang*, Eric Lemarchand, Teddy Fen-Chong and Kefei Li, Tsinghua University, Beijing, P.R. China
- 11:40-12:00 Thermo-hydro-ionic transport through an immersed tunnel for a service life of 120 years (064-58)
Xiaoyun Pang*, Kefei Li and Patrick Dangla, Tsinghua University, Beijing, P.R. China
- 12:00-12:20 Influence of cracks and saturation on water penetration and chloride ingress into concrete by mesoscale computational method (005-42)
L.C Wang* and J.W. Bao, Dalian University of Technology, Dalian, P.R. China
- 12:30-13:30 **Lunch/Buffer Break** (JinChunYuan Hotel)

Session 6a – Durability

(Conference Hall, Hydraulic Building 407)

Chair: **Geert De Schutter, Kefei Li**

- 13:30-13:55 Session keynote: Modeling kinetics of C-S-H dissolution during carbonation of cement paste. Beyond the solid solution approach (018-51)
Patrick Dangla*, Antoine Morandea and Mickaël Thiéry, Laboratoire Navier, Université Paris-Est, ENPC - IFSTTAR - CNRS, France
- 13:55-14:15 A new model for the calculation of structures affected by DEF Application to a viaduct case (070-59)
O. Omikrine-Metalssi*, B. Kchakech, S. Lavaud, B. Godart and F. Beauvallet, IFSTTAR, France
- 14:15-14:35 Predicting depth of carbonation of concrete - a performance-based approach (003-56)
Rakesh Gopinath*, Mark Alexander and Hans Beushausen, University of Cape Town, South Africa
- 14:35-14:55 Mesoscale simulation of damage for mortar and concrete under freeze-thaw cycles (080-61)
Fuyuan Gong*, Yi Wang, Tamon Ueda and Dawei Zhang, Civil Engineering, Hokkaido University, Japan
- 14:55-15:15 Accelerated carbonation modelling of fly ash blended cement paste (019-52)
A. Morandea*, M. Thiéry, P. Dangla and C.E. White, Princeton University, USA
- 15:15-15:35 Multiscale modeling of alkali-silica reaction reaction degradation of concrete (057-55)
Gianluca Cusatis*, Mohammed Alnaggar and Roozbeh Rezakhani, Civil and Environmental Engineering Department, Northwestern University, USA
- 15:35-15:55 Corrosion-induced bond deterioration in reinforced concrete structures (074-60)
Shangdong Yang* and Chun-Qing Li, Department of Civil and Environmental Engineering, University of Strathclyde, Glasgow, UK
- 15:55-16:10 **Coffee/Tea Break**

Session 6b – Durability

(Conference Hall, Hydraulic Building 407)

Chair: Geert De Schutter, Kefei Li

- 16:10-16:30 Modelling of Temperature Impacts on Cement Paste in Clayey Environment

Constrained by Field Experiments (014-44)

Philippines Lalan, Laurent De Windt, Alexandre Dauzères* and Valéry Detilleux,
Institute of Radiation Protection and Nuclear Safety (IRSN)/ PRP-DGE/SRTG/LETIS,
France

16:30-16:50 Modelling sulfate attack in concrete using mixture theory (071-53)

Chethan Gouder* and U. Saravanan, Indian Institute of Technology Madras, India

16:50-17:10 Mechanical modeling of chemo-mechanical coupling behavior of leached concrete
(031-64)

Bei Huang*, Chunxiang Qian and Shao Jianfu, School of materials Science and
Engineering, Nanjing Tech University, China

17:10-17:30 Research of the failure process of concrete under the effect of freezing-thawing
cycle by using X-ray industrial CT techniques (011-57)

J. Yuan, Yang Liu*, B.K. Zhang and H.X. Li, North China Municipal Engineering
Design & Research Institute, China

17:30-17:50 Measuring and modeling of water penetration into unsaturated concrete (045-46)

Peng Zhang*, Tiejun Zhao, Jinbo Yang and Congtao Sun, Department of Civil
Engineering, Qingdao Technological University, China

18:00-18:30 **Closing speech of CONMOD2014**

Practical information

Conference Hotel

The conference will be held in the campus of Tsinghua. Two hotels are reserved by the local organizing committee for the participants of CONMOD2014: Jin-Chun-Yuan Hotel and Jia-Suo Hotel besides the lake near the west entrance of Tsinghua. The rooms reserved for CONMOD2014 are limited. The rooms will be distributed to the reserved participants upon registration. If you have special needs concerning hotel reservation you can contact CONMOD2014 secretariat.

Jin-Chun-Yuan Hotel/Jia-Suo Hotel (equivalent to 3-star comfort)

Price for CONMOD2014:

Standard room: 418 RMB (68 USD)/night (double beds, room-share possible)

Scenery room: 468 RMB (76 USD)/night (double beds, room-share possible)

<http://pt.tsinghua.edu.cn:8081/room.asp>

Other hotels

Wenjin Hotel (4-star hotel)

Price (can be changed according to the reservation and season)

Standard room: 768 RMB* (124 USD)/night (room-share possible)

Luxury suite: 1288 RMB* (208 USD)/night

<http://www.wenjin.com.cn>

* Rate available only for reservation from CONMOD2014 secretariat.

Holiday Inn (4-star hotel)

Price (can be changed according to the reservation and season)

Standard room: 872 RMB (141 USD)/night (room-share possible)

Luxury suite: 987 RMB (160 USD)/night

<http://cn.ihg.com/HolidayInn>

Qinghua Yuan Hotel (equivalent to 3 star comforts)

Price (can be changed according to the reservation and season)

Standard room: 550 RMB (89 USD)/night (room-share possible)

Luxury suite: 650 RMB (105 USD)/night

<http://www.tsinghuahotel.com>

More hotel information can be found through the web (<http://www.hotels.com>).

Touristic Information

Beijing city is known for its multiple cultural, historical and natural attractions. Several attraction sites are very near to Tsinghua Campus, e.g. Yuan Ming Yuan (relics) Garden (just outside the west entrance of Tsinghua), Summer Palace (2km from west entrance of Tsinghua). You can also enjoy yourself in the hot spring in the mountain area to the north of Beijing (about 50km), in the same direction to Great Wall (Badaling, 25km from Tsinghua) and Tomb Ming (20 km from Tsinghua). In addition to these attractions you should know that the best season for tourism in Beijing area is the autumn, especially the October. Detailed information for tourism and cultural activities can be found in <http://english.visitbeijing.com.cn/> and lots of tourist agencies are available which can provide English-speaking guides. You can find some of these agencies through the web <http://www.tour-beijing.com/>.

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Notes