



2014 绿色开采理论与实践国际研讨会  
**7<sup>th</sup> International Symposium on Green Mining**

主题：充填开采、薄煤层开采

**Main Theme: Backfill Mining and Thin Seam Mining**

**会议手册**  
**Program & Information**

2014 年 11 月 21 -23 日  
21-23 November,2014

中国 徐州  
Xuzhou,China

2014 绿色开采理论与实践国际研讨会  
7<sup>th</sup> International Symposium on Green Mining

主题：充填开采、薄煤层开采

**Main Theme: Backfill Mining and Thin Seam Mining**

主办单位：中国矿业大学

**HOST:** China University of Mining and Technology

承办单位：

**ORGANIZERS:**

煤炭资源与安全开采国家重点实验室

State Key Laboratory of Coal Resources and Safe Mining

中国矿业大学矿业工程学院

School of Mines,CUMT

中国矿业大学安全工程学院

School of Safety Engineering,CUMT

深部煤炭资源开采教育部重点实验室

Key Laboratory of Deep Coal Resources Mining(CUMT), Ministry of Education

澳大利亚卧龙岗大学

The University of Wollongong, Australia

协办单位：

**CO-HOSTS:**

863 项目“薄煤层开采关键技术与装备”

National “863” Program “Key Technology and Equipment of thin coal seam mining”

煤矿充填开采国家工程实验室

National Engineering Laboratory for Mine Backfill Mining

新疆大学地质与矿业工程学院

College of Geology and Exploration Engineering,Xinjiang University

中澳联合矿业技术发展有限公司

China Australia Mining Development Alliance

徐州中矿大贝克福尔科技股份有限公司

Xuzhou CUMT Backfill Technology Co.,LTD.

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# 2014 绿色开采理论与实践国际研讨会

## 7<sup>th</sup> International Symposium on Green Mining

主题：充填开采、薄煤层开采

Main Theme: Backfill Mining and Thin Seam Mining

### 会议日程

#### Program

● 会议地点(The venue)

11月22日/22<sup>nd</sup> Nov.

中国矿业大学(南湖校区)图书馆 105 报告厅

Library Lecture Hall No. 105 of CUMT (Nanhu Campus)

11月23日/23<sup>rd</sup> Nov.

分会场一：中国矿业大学(南湖校区)图书馆 105 报告厅

The first branch venue: Library Lecture Hall No. 105 of CUMT (Nanhu Campus)

分会场二：中国矿业大学(南湖校区)图书馆 107 报告厅

The second branch venue: Library Lecture Hall No. 107 of CUMT (Nanhu Campus)

● 会议时间表 (The schedule)

| 日期(Date)                     | 时间(Time)          | 活动内容(Main Activities)   |
|------------------------------|-------------------|---|
| 11月21日/21 <sup>st</sup> Nov. | 9:00 ~ 22:00      | 会议注册/Registration of Symposium  |
| 11月22日/22 <sup>nd</sup> Nov. | 7:00 ~ 8:00       | 早餐/Breakfast<br>8点从福禧宾馆集中乘车至南湖校区图书馆<br>8:00am take bus from Fuxi Hotel to Nanhu Campus              |
|                              | 8:30 ~ 8:45       | 开幕式/Opening ceremony  |
|                              | 8:45 ~ 9:00       | 全体合影/Group Photo  |
|                              | 9:00 ~ 10:20      | 特邀报告/ Keynote Speeches  |
|                              | 10:20 ~ 10:30     | 茶息/Tea Break  |
|                              | 10:30 ~ 12:10     | 特邀报告/ Keynote Speeches  |
|                              | 12:10 ~ 13:30     | 午餐/Lunch  |
|                              | 13:30 ~ 15:30     | 特邀报告/ Keynote Speeches  |
|                              | 15:30 ~ 15:40     | 茶息/Tea Break  |
|                              | 15:40 ~ 17:40     | 特邀报告/ Keynote Speeches<br>17:40 从南湖校区图书馆集中乘车到福禧宾馆<br>17:40 take bus from Nanhu Campus to Fuxi Hotel |
| 18:30 ~ 20:30                | 晚宴/Welcome Dinner |   |
| 11月23日/23 <sup>rd</sup> Nov. | 7:00 ~ 8:00       | 早餐/Breakfast<br>8点从福禧宾馆集中乘车至南湖校区图书馆<br>8:00am take bus from Fuxi Hotel to Nanhu Campus              |
|                              | 8:30 ~ 10:10      | 专题报告/ Speeches  |
|                              | 10:10 ~ 10:20     | 茶息/Tea Break  |
|                              | 10:20 ~ 12:20     | 专题报告/ Speeches  |
|                              | 12:20 ~ 12:30     | 闭幕式/Closing Ceremony  |
|                              | 12:30 ~ 13:30     | 午餐/Lunch<br>12:30 从南湖校区图书馆集中乘车到福禧宾馆<br>12:30 take bus from Nanhu Campus to Fuxi Hotel               |

## 2014 绿色开采理论与实践研讨会日程 (Agenda of Symposium)

| 时间(Time)   | 活动内容(Main Activities)  |
|--|--|
| 11 月 22 日<br>(22 <sup>nd</sup> Nov.)<br>8:30~10:20 | <b>主持人(Chairman): 窦林名 教授 (Prof. Dou Linming)</b>   |
| 8:30~8:45  | 领导致欢迎辞(Welcome address by the President)   |
| 8:45~9:00  | 全体合影(Group Photo)  |
| 9:00~10:20<br>(每人 20 分钟)<br>(20min/person)         | <ol style="list-style-type: none"> <li>1. 煤矿智能化开采关键技术<br/>The Key Technology of Intelligent Mining in Coal Mines<br/>葛世荣教授 中国矿业大学<br/>Prof. Ge Shirong, CUMT</li> <li>2. 加强引导, 强化监管, 推进煤矿充填开采健康发展<br/>Promote Healthy Development of Coal Mine Backfilling by Strengthening Guidance and Supervision<br/>乔乃琛局长 山东省煤炭工业局<br/>Qiao Naichen, Director of Coal Industry Bureau of Shandong Province</li> <li>3. 固体密实充填采煤理论与技术<br/>Theory and Technology of Solid Dense Backfill in Coal Mines<br/>缪协兴教授 中国矿业大学<br/>Prof. Miao Xiexing, CUMT</li> <li>4. 薄煤层开采技术研究进展<br/>Research progress of mining technology in thin coal seam<br/>屠世浩教授 中国矿业大学<br/>Prof. Tu Shihao, CUMT</li> </ol>   |
| 10:20~10:30  | 茶息 (Tea Break)   |
| 10:30~12:10  | <b>主持人(Chairman): 屠世浩 教授(Prof. Tu Shihao)<br/>任廷祥 教授(Prof. Ting Ren)</b>   |
| 10:30~12:10<br>(每人 20 分钟)<br>(20min/person)        | <ol style="list-style-type: none"> <li>1. 基于关键层控制的部分充填采煤技术<br/>Coal Mining with Partial Backfilling Based on Key Strata Control<br/>许家林教授 中国矿业大学<br/>Prof. Xu Jialin, CUMT</li> <li>2. 薄煤层半煤岩掘进机关键技术研究<br/>Research on High Efficient Cutting Technology of Coal-rock Roadheader for Thin Seam<br/>杜长龙教授 中国矿业大学<br/>Prof. Du Changlong, CUMT</li> <li>3. 膏体充填采煤岩层控制关键问题研究<br/>Research on the Key Issues of Coal Mining Strata Control with Paste Backfilling<br/>周华强教授 中国矿业大学<br/>Prof. Zhou Huaqiang, CUMT</li> <li>4. 超高水材料充填开采技术及其应用<br/>Golf Filling Techniques of the Super High-water Content Material and Its Applications<br/>冯光明教授 中国矿业大学<br/>Prof. Feng Guangming, CUMT</li> <li>5. 定向钻井在薄煤层开采中的应用<br/>Applications of Directional Drilling in Thin Seam Mining<br/>弗兰克·亨格福特博士 澳大利亚卧龙岗大学<br/>Dr. Frank Hungerford, The University of Wollongong, Australia</li> </ol> |
| 12:10~13:30  | 午餐(Lunch)  |

| 时间(Time)                                    | 活动内容(Main Activities)  |
|---|--|
| 11月22日<br>(22nd Nov.)<br>13:30~15:30        | <p style="text-align: center;"><b>主持人(Chairman) : 张华兴 研究员 (Researcher Zhang Huaxing)</b><br/><b>梁卫国 教授 (Prof. Liang Weiguo)</b></p>  |
| 13:30~15:30<br>(每人 20 分钟)<br>(20min/person) | <ol style="list-style-type: none"> <li>1. 膏体充填采煤实践与展望<br/>Practice and prospects of Paste Backfilling Mining<br/>孙希奎教授级高工、总工程师 淄博矿业集团有限责任公司<br/>Prof.Sun Xikui, Chief Engineer of Zibo Mining Group</li> <li>2. 沿空留巷与薄煤层连续开采<br/>Gob-side Entry Retaining and Continuous Mining of Thin Coal Seam<br/>张农教授 中国矿业大学 Prof. Zhang Nong, CUMT</li> <li>3. 采动覆岩隔离注浆充填在淮北矿区的应用<br/>Application of Grout Injection into Overburden of Isolated Longwall Panels in Huaibei Coal Mining District<br/>倪建明教授级高工、副总工程师 淮北矿业集团<br/>Prof. Ni Jianming, Vice Chief Engineer of Huaibei Mining Group</li> <li>4. 煤矿工作面自动化现状及未来<br/>The Current Situation and the Future of Coal Mining Automation Technology<br/>马丁 德国马克公司<br/>Martin, Marco, Germany</li> <li>5. 超高水材料矿山充填开采技术现状与发展趋势<br/>The Status and Development Trend of Backfilling with Super High Water Material<br/>孙春东 教授级高工、总工程师 冀中能源邯郸矿业集团<br/>Prof.Sun Chun-dong, Chief Engineer of Handan Mining Group JZEG</li> <li>6. 新汶矿区充填开采技术研究与实践<br/>Research and Practice of Backfilling Technology in Xinwen Mining Area<br/>庞继禄教授级高工 煤矿充填开采国家工程实验室<br/>Prof. Pang Jilu, Deputy director of National Engineering Laboratory for Mine Backfill Mining</li> </ol> |
| 15:30~15:40                                 | 茶息(Tea Break)  |
|   |  |
| 15:40~17:40                                 | <p><b>主持人 Chairman: 周华强 教授 (Prof. Zhou Huaqiang)</b><br/><b>孙希奎 教授级高工 (Prof. Sun Xikui)</b></p>  |
| 15:40~17:40<br>(每人 20 分钟)<br>(20min/person) | <ol style="list-style-type: none"> <li>1. 薄煤层开采的冲击矿压防治研究<br/>Rock-burst Prevention for the Thin Seam Mining<br/>窦林名教授 中国矿业大学 Prof. Dou Linming, CUMT</li> <li>2. 似膏体充填水体下采煤技术实践<br/>Practice of the Technology of Coal Mining with Paste-like Backfill under Water<br/>黄玉诚教授 中国矿业大学(北京) Prof. Huang Yucheng, CUMT(Beijing)</li> <li>3. 极薄煤层钻式采煤机关键技术与装备<br/>The Key Technology and Equipment of the Auger Drill Miner<br/>李建平教授 中国矿业大学 Prof.Li Jianping, CUMT</li> <li>4. 对煤矿充填开采的思考<br/>Reflections on the Coal Mine Backfill Mining<br/>张华兴 研究员 煤炭科学研究总院<br/>Researcher Zhang Huaxing, China Coal Research Institute</li> <li>5. 薄煤层采动卸压及瓦斯高效抽采关键技术研究<br/>Key Technique Research on Mining Pressure-relief of Thin Coal Seam and Its Efficient Gas Extraction<br/>林柏泉教授 中国矿业大学 Prof. Lin Baiquan, CUMT</li> <li>6. 煤矿充填开采沉陷控制技术与效果<br/>Subsidence Control Effect of Backfilling Mining in Coal Mine<br/>郭广礼教授 中国矿业大学<br/>Prof. Guo Guangli, CUMT</li> </ol>  |
| 18:30~20:30                                 | 晚宴(Dinner)   |

| 时间(Time)  | 分会场一活动内容(Main Activities of the First Branch Venue)   |
|---|---|
| 11月23日<br>(23 <sup>rd</sup> Nov.)<br>8:30~10:10 | <p style="text-align: center;"><b>主持人(Chairman):</b> 张益东 教授 (Prof. Zhang Yidong)<br/>庞继禄 教授级高工 (Prof. Pang Jilu)</p>  |
| 8:30~10:10<br>(每人20分钟)<br>(20min/person)        | <ol style="list-style-type: none"> <li>1. 薄煤层墩柱充填采煤法岩层控制关键技术研究及应用<br/>Study on the Key Technology of Strata Control by Pier-column Filling Method<br/>朱卫兵副教授 中国矿业大学 A-Prof. Zhu Weibing, CUMT</li> <li>2. 机械破碎后的矸石粉末和粉煤灰在Ca(OH)<sub>2</sub>溶液中的活性研究<br/>The Study on the Activity of Mechanical Crush Coal Gangue and Fly Ash in Ca(OH)<sub>2</sub> Solution<br/>冯国瑞教授 太原理工大学<br/>Prof. Feng Guorui, Taiyuan University of Technology</li> <li>3. FRP管-混凝土-钢双壁空心组合柱在煤矿充填开采中的应用<br/>Application of Hybrid FRP-Concrete-Steel Double-Skin Tubular Columns in Mining<br/>余涛博士 澳大利亚卧龙岗大学<br/>Dr. Tao Yu, The University of Wollongong, Australia</li> <li>4. 风积砂充填开采研究与应用<br/>Research &amp; Application of Backfilling with Aeolian Sand<br/>崔锋助理研究员 煤炭科学研究总院<br/>A-Research Cui Feng, China Coal Research Institute</li> <li>5. 煤矿充填开采的倍增效益分析<br/>Multiplication Benefit Analysis on Coal Mine Backfill Mining<br/>李永峰教授 中国矿业大学 Prof. Li Yongfeng, CUMT</li> </ol>  |
| 10:10~10:20                                     | 茶息(Tea Break)   |
| 10:20~12:20                                     | <p style="text-align: center;"><b>主持人(Chairman):</b> 冯光明 教授 (Prof. Feng Guangming)<br/>黄玉诚 教授 (Prof. Huang Yucheng)</p>   |
| 10:20~12:20<br>(每人20分钟)<br>(20min/person)       | <ol style="list-style-type: none"> <li>1. 全尾砂-戈壁集料膏体充填料浆合理配比确定<br/>Determination of Reasonable Filling Ratio of Paste Slurry with Unclassified Tailings-gobi Aggregates<br/>王洪江教授 北京科技大学<br/>Prof. Wang Hongjiang, University of Science and Technology Beijing</li> <li>2. 固体充填回收遗留煤柱技术在巴基斯坦的应用前景<br/>Application Prospect of Backfill Technology for Pillar Recovery in Room and Pillar Mining Method, Pakistan.<br/>赛米 巴基斯坦 Sami Abro, Pakistan</li> <li>3. 采动覆岩隔离注浆充填效果的钻孔探测研究<br/>Borehole Investigation of the Effectiveness of Grout Injection into Overburden of Isolated Longwall Panels<br/>轩大洋博士 中国矿业大学 Dr. Xuan Dayang, CUMT</li> <li>4. 固体密实充填采煤的矿压控制理论与应用<br/>Ground Control Theory and Application of Solid Dense Backfill in Coal Mines<br/>黄艳利博士 中国矿业大学 Dr. Huang Yanli, CUMT</li> <li>5. 旺格维利矸石充填设计方法<br/>Design Methods on Wanggeweili Gangue Filling Mining<br/>张新国副教授 山东科技大学<br/>A-Prof. Zhang Xinguo, Shandong University of science and technology</li> <li>6. 朱村煤矿-5煤膏体充填开采地表移动实测分析<br/>Analysis of Surface Movement Measurement of Mining No 1-5 Coal Seam by Paste Backfill in Zhucun Colliery<br/>王光伟 副总经理 徐州中矿大贝克福尔科技有限公司<br/>Wang Guangwei, Deputy General Manager, Xuzhou CUMT Backfill Technology Co. Ltd</li> </ol> |
| 12:20~12:30                                     | 105 报告厅开闭幕式(Closing Ceremony in Library Lecture Hall No.105)  |

| 时间(Time)  | 分会场二活动内容 (Main Activities of the Second Branch Venue)   |
|---|---|
| 11月23日<br>(23 <sup>rd</sup> Nov.)<br>8:30~10:10 | 主持人(Chairman): 方新秋 教授(Prof. Fang Xinqiu)<br>倪建明 教授级高工(Prof. Ni Jianming)  |
| 8:30~10:10<br>(每人 20 分钟)<br>(20min/person)      | <ol style="list-style-type: none"> <li>四川复杂结构极薄煤层开采现状与问题分析<br/>Analysis on the Current Status and Problems of Mining for Multiple Structure and Thin Seam Coal in Sichuan Province<br/>华道友副教授 四川省煤管局安全技术中心<br/>A-Prof. Hua Daoyou, Sichuan Administration of Coal Mine Safety</li> <li>深井“三软”薄煤层采场矿压特征与综采技术实践<br/>Investigation into Characteristics of Ground Pressure Evolution and Engineering Application with Fully Mechanized Coal Mining in Deep and 3-Soft Thin Seam<br/>杨科教授 安徽理工大学<br/>Prof. Yang Ke, Anhui University of Science and Technology</li> <li>薄煤层半煤岩巷道掘进冲击矿压(岩爆)特性分析<br/>Analysis of Rock Burst Characteristics of Half Coal and Half Rock Gateway Excavating in Thin Coal Seam<br/>高明仕教授 新疆大学<br/>Prof. GaoMingshi, Xinjiang University</li> <li>薄煤层综采工作面“三机”协同控制<br/>Cooperative Control of Three Machines in Thin Seam Mining<br/>冯晓龙副教授 中国矿业大学<br/>A-Prof. Feng Xiaolong, CUMT</li> <li>薄煤层开采自动化技术的应用<br/>Application of the Automation Technology in the Thin Coal Seam Mining<br/>李更新副教授 太原理工大学<br/>A-Prof. Li Gengxin, Taiyuan University of Technology</li> </ol> |
| 10:10~10:20                                     | 茶息(Tea Break)   |
| 10:20~11:40                                     | 主持人(Chairman) : 高明仕 教授(Prof. Gao Mingshi)<br>杨科 教授(Prof. Yang Ke)   |
| 10:20~12:00<br>(每人 20 分钟)<br>(20min/person)     | <ol style="list-style-type: none"> <li>薄煤层综采工作面气幕隔尘系统研究<br/>Study of Air Curtain Dust-controlling System on Fully-mechanized Face of Thin Coal Seam<br/>谢耀社教授 中国矿业大学<br/>Prof. Xie Yaoshe, CUMT</li> <li>南方复杂条件下的薄煤层开采巷道支护问题及对策<br/>Control Principle and Technology of Roadway Surrounding Rock for Thin Coal Layer under Complex Conditions<br/>余伟健副教授 湖南科技大学<br/>A-Prof. Yu Weijian, Hunan University of Science and Technology</li> <li>薄煤层保护层开采卸压效应及瓦斯综合抽采技术研究<br/>Pressure-relief Effect and Comprehensive Gas Extraction Technology for Thin Coal Seam Protective Layer Mining<br/>王方田博士 中国矿业大学 Dr. Wang Fangtian, CUMT</li> <li>倾斜薄煤层切顶巷冲击矿压防治技术研究<br/>Research of Rock Burst Prevention Technology of Roof-cutting Roadway in Inclined Thin Coal Seam<br/>何江博士 中国矿业大学 Dr. He Jiang, CUMT</li> <li>割煤及邻架移架对支架承载特性的影响及其意义<br/>What can the changes in shield resistance tell us during the period of shearer's cutting and neighboring shield' advance?<br/>程敬义博士 中国矿业大学 Dr. Cheng Jingyi, CUMT</li> </ol>   |
| 12:20~12:30                                     | 105 报告厅开闭幕式(Closing Ceremony in Library Lecture Hall No.105)  |

# 简要注意事项

## Attentions

### 一、住宿安排 (Accommodation) :

中外来宾 (随行人员及司机) 统一入住汉中福禧宾馆 (办理会议注册及到酒店总台办理入住手续)。

All guests live in Fuxi Hotel(Registration and Check-in).

### 二、会议交通 (Traffic):

22、23 日早上 8 点从汉中福禧宾馆集中乘车到南湖校区图书馆;

22<sup>nd</sup> and 23<sup>rd</sup> 8:00am take bus from Fuxi Hotel to Nanhu Campus;

22 日晚上 17:40、23 日中午 12:30 从南湖校区图书馆集中乘车到汉中福禧宾馆。

22<sup>nd</sup> 17:40 and 23<sup>rd</sup> 12:30 take bus from Nanhu Campus to Fuxi Hotel

### 三、会场地地点(Venue):

11 月 22 日/22<sup>nd</sup> Nov.

中国矿业大学(南湖校区)图书馆 105 报告厅

Library Lecture Hall No. 105 of CUMT (Nanhu Campus)

11 月 23 日/23<sup>rd</sup> Nov.

分会场一: 中国矿业大学(南湖校区)图书馆 105 报告厅

The first branch venue: Library Lecture Hall No. 105 of CUMT (Nanhu Campus)

分会场二: 中国矿业大学(南湖校区)图书馆 107 报告厅

The second branch venue: Library Lecture Hall No. 107 of CUMT (Nanhu Campus)

### 四、用餐安排(Meal)

|                           |                 |                     |   |
|---------------------------|-----------------|---------------------|---|
| 21 <sup>st</sup> November | 中餐<br>Launch    | 工作餐<br>Mini Banquet | 福禧宾馆(凭代表证)<br>Fuxi Hotel (By Participant Card)                                    |
|                           | 晚餐<br>Dinner    | 自助餐<br>Buffet       | 福禧宾馆(凭餐券)<br>Fuxi Hotel (By Meal Coupon)  |
| 22 <sup>nd</sup> November | 早餐<br>Breakfast | 自助餐<br>Buffet       | 福禧宾馆(凭餐券)<br>Fuxi Hotel (By Meal Coupon)  |
|                           | 午餐<br>Launch    | 自助餐<br>Buffet       | 南湖校区二食堂教工自助餐厅 (凭餐券)<br>No 2 Staff Dining Room in Nanhu Campus<br>(By Meal Coupon) |
|                           | 晚餐<br>Dinner    | 晚宴/ Banquet         | 福禧宾馆(凭餐券)<br>Fuxi Hotel (By Meal Coupon)  |
| 23 <sup>rd</sup> November | 早餐<br>Breakfast | 自助餐<br>Buffet       | 福禧宾馆(凭餐券)<br>Fuxi Hotel (By Meal Coupon)  |
|                           | 午餐<br>Launch    | 自助餐<br>Buffet       | 福禧宾馆(凭餐券)<br>Fuxi Hotel (By Meal Coupon)  |

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