聚焦科技前端·助推纸业发展
2018国际造纸技术报告会在上海胜利召开

Focus on the Technology Frontiers, Promote the Paper Industry Development
2018 International Paper Technical Conference Was Successfully Held in Shanghai

2018年8月30日，由中国造纸学会、中国制浆造纸研究院有限公司与芬兰林纸工程师协会共同主办，中国造纸杂志社承办的2018国际造纸技术报告会在上海世博展览馆胜利召开。来自中国、芬兰、加拿大等国的科研院所、大专院校、制浆造纸厂等的200多名代表参加了技术报告会。

在2018国际造纸技术报告会开幕式上，中国造纸学会秘书长、中国制浆造纸研究院有限公司董事长曹春昱，芬兰林纸工程师协会董事总经理 Antti Lindqvist 分别致辞。

曹春昱秘书长在致辞时表示，中国造纸工业在改革开放40年来取得了长足进步，但要实现从造纸大国向造纸强国转变的目标还有较长的一段路要走，还需要更多的创新技术作为支撑。此次技术报告会邀请中国、芬兰、加拿大的专家学者就制浆造纸前沿热点创新技术进行研讨，以期为行业科技人员提供参考。

Antti Lindqvist 先生首先对与中国造纸学会、中国制浆造纸研究院有限公司的再

The 2018 International Paper Technical Conference, co-organized by China Technical Association of Paper Industry (CTAPI), China National Pulp and Paper Research Institute Co., Ltd. (CNPPRI), Forest Products Engineers (PI) from Finland, undertaken by China Pulp & Paper Magazines Publisher, was successfully held in the World Expo Exhibition and Convention Center in Shanghai on August 30th, 2018. More than 200 representatives from different scientific research institutes, universities, pulp and paper factories, etc. originated from China, Finland, Canada and other countries attended the technical conference.

Mr. Cao Chunyu, secretary-general of CTAPI, president of CNPPRI, and Mr. Antti Lindqvist, managing director of PI addressed speeches at the opening ceremony of 2018 International Paper Technical Conference, respectively.

"China's paper industry has made great progress in the past 40 years since the reform and opening-up, but there is still a long way to go before we successfully transform from a major papermaking country to a world papermaking power. Therefore, we need more innovative technologies to help us complete this transformation process. Scholars and experts from China, Finland and Canada will engage in discussion of hot spots and innovative technologies in pulp and paper industry at this International Paper Technical Conference, so as to provide reference for scientific and technological researchers in the industry." Secretary-general Cao

度合作表示感谢。他表示，林纸工业面临的挑战和机遇是双重的，无论长期还是短期都需要新的解决方案。同时，对新型纤维基包装材料、创新型涂料、新型生物质材料、生物能源以及节能和节水技术的需求也会逐步增加。

技术报告会由中国造纸学会学术交流委员会副主任、中国林科院林产化学工业研究所房桂干研究员主持。

芬兰 VTT 技术研究中心的 Katariina Torvinen 女士做了题为“制浆造纸技术研究热点展望”的报告，重点介绍了芬兰及欧洲在生物质复合材料、酶技术、3D 生物质材料、木素高附加值利用、热塑性纤维酯以及泡沫成形等领域的研究热点。

贝励集团环境业务总裁 Kaisa Vähänen 女士以“欧洲和中国造纸环保政策的展望及其对造纸行业的影响”为题，介绍了欧洲和中国在废水排放、废气排放、废物填埋等领域的法律法规及最佳可行性技术（BAT），并分析了其对造纸行业的影响。

陕西科技大学教授、博士生导师张美云女士做了题为“高性能纤维基功能材料研究热点及技术进步”的报告。张美云教授首先分析了植物纤维的特性及在抄造特种纸时的缺陷，介绍了高性能纤维的特性及其发展趋势，并分享了芳纶云母纸基绝缘材料和芳纶纳米纤维两种高性能纤维纸基功能材料的制备及其潜在应用。

维美德纸厂业务 EMEA 销售主管 Kari Räisänen 先生和 Kotkamills 纸厂 CEO Markku Hämäläinen 先生以“借助帘式涂布技术开发新产品：Kotkamills 案例”为题，介绍了维美德在帘式涂布技术开发新产品方面的情况，并和与会嘉宾分享了该技术在 Kotkamills 纸厂纸机上的实际应用案例。

CH-Bioforce 项目主管 Mari Taipale 女士

Chunyu said in his opening speech.

Mr. Antti Lindqvist expressed his gratitude for cooperation again with CTAPI and CNPPRI. He added that the challenges and opportunities faced by paper industry was concomitant, new solutions were needed in both the long and short term. In the meantime, the demand for new fiber-based packaging materials, innovative coatings, new biomass materials, bioenergy, as well as energy-saving and water-saving technologies will gradually increase.

The 2018 International Paper Technical Report was hosted by Mr. Fang Guigan, deputy director of the Academic Exchange Committee of CTAPI, researcher of the Institute of Chemical Industry of Forest Product, Chinese Academy of Forestry.

Ms. Katariina Torvinen from VTT Technical Research Center of Finland Ltd. made the report entitled "Research Hot Spots Outlook in Pulping and Papermaking Technology" focusing on the research hotspots of biomass composites, enzyme technology, 3D biomass materials, high-value added utilization of lignin, thermoplastic fiber ester and foam forming in Finland and Europe.

Ms. Kaisa Vähänen, business unit president of Pöyry, introduced the laws & regulations and best available technology (BAT) in areas of wastewater emissions, emissions, waste landfill and analyzed its influences on paper industry of China and Europe in her report entitled "Environmental Policy Outlook and Implications on Paper Industry in Europe and China".

Professor Zhang Meiyun from Shaanxi University of Science & Technology made the report entitled "Recent Innovations in High Performance Fiber Based Functional Materials". Professor Zhang analyzed the characteristics of plant fiber and its defect in making specialty paper, and introduced the characteristics and development trend of high-performance fiber. The preparation and potential applications of two major high-performance fiber based functional materials, i.e., high performance aramid mica paper and aramid nanofiber were shared.

Mr. Kari Räisänen, sales director of EMEA, BU Paper Mill, Valmet together with Mr. Markku Hämäläinen, CEO of Kotkamills made the report entitled "New Innovative Products with Curtail Coating: Case Kotkamills" to introduce the case of Valmet in the

做了题为“新型生物质组分分离技术”的报告，介绍了一种经济、高效生产高品质纤维素、高附加值高纯度半纤维素和无硫木素的方法，该方法为不同领域应用提供了更多机会。

斯道拉恩索北海工厂总经理朱伟言先生以“世界级纸板制造的工具与最佳实践”为题，介绍了斯道拉恩索北海工厂的工艺流程、主要产品，重点分享了在世界级纸板制造实施方面的实践与工具。

加拿大不列颠哥伦比亚大学名誉教授 Richard Kerekes 先生及加拿大查韦环境研究院 CEO、首席科学家赵汝和博士，首先做了题为“湿部压榨模型减少造纸过程能耗”的演讲。介绍了一种纸张干燥过程中减少能耗的有用工具——渗透率渐降模型，该模型可综合考虑影响压榨的所有因素，用于改变压榨部操作，能够有效降低干燥能耗。随后，Richard Kerekes 教授和赵汝和博士以“磨浆过程中纤维处理均匀性”为题，分享了团队在表征磨浆过程中纤维处理均匀性方面的新发现，并提出一种表征磨浆的新方法。

在上午、下午的演讲结束后，与会代表分别与演讲嘉宾就其感兴趣的话题进行了积极的互动交流。

最后，曹春昱秘书长代表主办方在闭幕式上做了总结发言。他首先代表主办方感谢演讲嘉宾的精彩演讲，感谢芬兰林纸工程师协会的支持，并感谢与会代表的参会。曹春昱秘书长指出，此次技术报告会探讨交流了造纸技术领域诸多创新性或影响广泛的技术发展和科技前沿，希望这些既有理论深度又有应用实践的报告内容能够为造纸行业的科技研究、工厂应用提供借鉴，以助推造纸行业可持续发展！

development of new products using curtain coating technology and shared the practical application case of the technology in Kotkamills.

Ms. Mari Taipale, director of the CH-bioforce, presented an economic and efficient approach in producing high quality cellulose, high-value added & high-purity hemicellulose and sulfur-free lignin in her report entitled "Review of New Biomass Fractionation Technologies", which will provide more opportunities for different fields.

Report given by Mr. Zhu Weiyan, mill director of Store Enso Beihai Mill, with the title of "Tools and Best Practices for World-class Board-making Operations" demonstrated the technological process and main products of Store Enso Beihai Mill and shared the experience of practice and tools in world-class cardboard manufacturing process.

Professor Richard Kerekes, Professor Emeritus of Pulp and Paper Centre, The University of British Columbia, Canada, and Dr. Joe R. Zhao, CEO and chief scientist of the Tri-Y Environmental Research Institute in Canada, jointly delivered a lecture entitled "Wet Pressing Models to Reduce Energy Consumption in Papermaking". Decreasing Permeability Model (DPM) as an useful tool to reduce energy consumption during paper drying process was presented. The DPM includes all factors affecting the pressing process, which can be applied to change the operation during press to save energy. Professor Richard Kerekes and Dr. Joe.R Zhao then shared the team's new findings on characterizing fiber uniformity during pulp refining and proposed an new approach of characterizing pulp refining in their report of "Fibre Treatment Uniformity in Pulp Refining".

After all the speeches, the audiences and speakers engaged in a interactive talk on the topics they were interested in.

Secretary-general Cao Chunyu made a summary speech on behalf of the host at the closing ceremony. He delivered his gratitude to the speakers on behalf of the host for their excellent speech, PI for their support on this event and all the delegates for their attendance. He pointed out that a number of innovations and far-reaching technology and frontiers in papermaking industry had been discussed and explored in this technical conference, hoped these reports with theoretical depth and practical application could be referential for the technical studies and manufacturing applications in papermaking industry, and would promote the sustainable development of papermaking industry.