

Webinar: Breakthrough Biodegradable Materials for Food & Beverage and Nonwoven Products

網絡研討會：用於食品和飲料及無紡布產品的突破性可生物降解材料



30-10-2020 (Fri)

3:00pm - 4:30pm

Cantonese 廣東話

Dr. Peter Lee Director of Research and Development (Environmental), NAMI
李偉文博士 研究發展總監(環保), 納米及先進材料研發院

• Global Trends of Plastic Ban Regulations

We will summarize the key plastic ban regulations implemented recently as well as the upcoming ones in different parts of the world. We will also highlight the impacts of the regulations and the opportunities for possible eco-friendly replacement materials.

• 全球禁塑條例新趨勢

我們將會總結世界各地禁塑條例的重點內容和時間表。此外，還會探討禁塑條例所衍生的影響及其對製造可替代塑膠之環保材料的機遇。

Dr. Alice Ho Senior Technical Manager, NAMI
何嘉儀博士 高級技術經理, 納米及先進材料研發院

• Eco-Friendly Nanocomposite Materials for Food and Beverage Preservation

Laminated polymer/aluminum, polymer/polymer or polymer/paper materials are commonly used in food and beverage packaging to maintain moisture content in food and prevent oxygen diffusion from ambient to the food for food preservation. Although these laminated materials can be recycled, the collection and separation processes are very complicated and costly. NAMI is developing biodegradable paper based nanocomposite materials for food and beverage packaging with optimized tensile strength and functional properties for packaging of different food & beverage items.

• 用於飲食品保鮮的環保納米複合材料

複合的聚合物/鋁、聚合物/聚合物或聚合物/紙材料可保持食品中的水分含量，並防止氧氣從周圍環境擴散到食品中，所以通常被用作食品和飲料的包裝，以保存食物新鮮。儘管這些複合材料可以被回收再用，但其收集和分離的過程非常複雜和昂貴。NAMI正在開發一種用於食品和飲料包裝的可降解紙質納米複合材料。這些材料的拉伸強度和功能特性可被優化，以作為不同食品和飲料的包裝。

Dr. Tin Lau Technical Manager, NAMI
劉若天博士 技術經理, 納米及先進材料研發院

• Novel Biodegradable Non-Woven Materials for Textile and Personal Care Industries

Non-woven fabrics massively used in textile and personal care products cannot be easily replaced by currently available biodegradable materials which have intrinsic material limitations under conventional non-woven processes such as melt-blown, spunbond, and etc. We will describe the development of NAMI's hybrid biodegradable non-woven materials, as well as the corresponding novel processes to overcome the difficulties in manufacturing to meet the requirements of different major non-woven products.

• 用於紡織及個人護理行業的創新可生物降解無紡布材料

於紡織及個人護理行業中常常使用的無紡布，急需尋找能替代之可生物降解材料。但是，現時可生物降解材料因其自身性能局限而不容易被應用於傳統如熔噴、紡粘等無紡布生產工藝。我們將會分享NAMI混合式可生物降解材料及相關創新無紡布工藝如何突破現今技術上的困難，以達到行業的產品需求。

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Plastic pollution is putting a heavy burden on our global environment, including the waste management systems and the oceans. Over million tonnes of plastics are produced each year globally, around half of which are single-use items like plastic bags, packaging materials, sanitary products, takeaway utensils, containers, etc. Complete elimination or 100% recycling of these single-use items is ideal but practically impossible. A wave of bans on single-use plastic has greatly expanded in different regions of the world to tackle this problem. This webinar will focus on the global trend in plastic ban policies and regulations, and sustainable biodegradable alternatives for plastic products in food & beverage, personal care and nonwoven personal protective equipment.

塑膠污染正給我們全球環境，包括廢物管理系統以及海洋，帶來沉重負擔。全球每年產生超過數百萬噸塑料，其中大約一半是用來製造一次性用品，例如膠袋，包裝材料，衛生產品，外賣餐具和容器等。能夠完全避免使用一次性塑料用品或100%回收是理想但實際上不可能。為解決這個問題，世界各地正在實施禁用一次性塑料的法例。我們將概述全球塑料禁令政策法規趨勢，並介紹用於食品飲料，個人護理和無紡布個人防護設備等，以替代塑料的可生物降解可持續材料。



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- **Global Trends of Plastic Ban Regulations**
全球禁塑條例新趨勢



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- **Eco-Friendly Nanocomposite Materials for Food and Beverage Preservation**
用於飲食品保鮮的環保納米複合材料



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- **Novel Biodegradable Non-Woven Materials for Textile and Personal Care Industries**
用於紡織及個人護理行業的創新可生物降解無紡布材料

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