



2021年3月4日(木)第3回海外技術者によるオンラインセミナー開催案内

関係者各位

一般社団法人光融合技術協会は、(株)サーフテックトランスナショナルと共催で、2021年3月4日(木) **16:00~17:30**に最近市場ニーズが高まっている反射防止技術に関するオンラインセミナーを開催いたします。詳細は下記をご参照ください。

万障繰り合わせてのご参加をお待ちしております。

1、講演日時：2021年3月4日(木)

15:30~16:00 受付、16:00~17:10 講演、17:10~17:30 質疑応答、ディスカッション

2、講演タイトル：“Innovative PVD and PECVD technology for anti-reflective coating manufacturing (反射防止コーティング生産のための革新的なPVDとPECVD)”

3、講演者：ベルギー、AGC Plasma Technology Solutions、Dr. Wiame Hugues & Mr. Jeroen Schotsaert (末尾に経歴記載)

4、概要：

AGCヨーロッパの一部門であるAGC Plasma Technology Solutionsは、ベルギーとドイツを拠点にして、その前身であるInterpane社の時代に培った大面積ガラス板用真空成膜装置製造技術を生かして、新しい成膜技術の開発と成膜装置の製作販売を進めている。サーフテックトランスナショナルはその日本向けの販売代理店を担っている。今回紹介するのは、その中で最近のディスプレイや自動車センサーなどの応用面でニーズが高まっている反射防止コーティング関連の以下の3つの成膜技術である；

- 1) HC(ホローカソード)-PECVDによる低C濃度のSiO₂の高速成膜技術
- 2) 曲げ基板への均一成膜用C-mag(回転カソード)技術
- 3) イオン注入による反射防止加工技術

これらの中で、HC-PECVDは、そのラボ装置が光融合技術協会管理運営の縦型インライン成膜装置(宇都宮大学内に設置)に取り付けられており、興味を持つ企業のための開発・試作を実施中である。

5、アクセスツール：オンラインアプリ MS Teams を使用

6、参加申込方法：

参加希望者は、ご芳名、貴社名、ご所属、役職、所在地、連絡先、Eメールをお知らせください。

参加申し込み先 -光融合技術協会理事 小野明 akira.ono1257@gmail.com

MS Teams 参加 URL をお送りします。

参加費 -光融合技術協会会員企業 無料 参加人数制限無し。

会員企業の窓口の方にお送りしますので、企業内の広報をお願いいたします。

-非会員(一般) 5,000円/人 申し込み期限 3月2日

参加申込者に MS Teams 参加 URL と振込先をお知らせいたします。

*参加いただいた方には後日、講演資料をお送りいたします。

7、お知らせ

光融合技術協会会員企業の方には技術相談窓口を設け、順次過去のセミナーの講演資料を会員コーナーにアップロードしております。現在は 宇都宮大学 谷田貝教授、鈴木昇教授、東大 須田義大教授

の講演資料に加え、フラウンホーファーFEP 副所長兼 R2R 部門長 Dr. Nicolas Schiller による “Roll-to-roll thin film technologies for flexible electronics, optics, packaging, and energy storage: Market & Technology” とフラウンホーファーFEP 光学膜成膜部門長 Dr. Daniel Gloess による “Advanced process control technologies for barrier and precision optics” の資料をダウンロードできます。これを機に是非とも入会お願いいたします。詳しくは下記 URL のホームページをご参照お願いいたします。

<https://www.i-opt.org/>

よろしくお願いいたします。

なおこのメールは BCC でお送りしております。

一般社団法人光融合技術協会
理事 小野明

講演者経歴

- **Hugues WIAME.** Director of AGC Plasma technology solutions and managing director of Interpane E&B (since 2015).
He has a PhD in surface and solid material chemistry (1994-2000) obtained with the highest distinction from Catholic university of Louvain and a Master in chemical engineering (1985-90), High distinction from Université catholique de Louvain, Louvain-la-Neuve.
He followed a Management development program at Vlerick Business School in Ghent and a MBA at IMD business school in Lausanne in 2016 (internal AGC development program).
After his master degree he became :
 - Research assistant in Colombia south America (09/90-09/92) in the field of catalysis and material sciences. Based in Bucaramanga he collaborate with the Colombian Institute of Petroleum.
 - Junior expert for the United Nation Development Program (UNDP) in Haiti (04/93-04/94), Consultant for UNDP (01/95)
 - Professor assistant in the laboratory of catalysis and solid material chemistry from Catholic University of Louvain (09/94-01/2000).
 - PhD in catalysis and surface science.
 - Teach to chemical engineer master students.
 - Deep Know-how : IR & Raman spectroscopy, RX, XPS, mass spectro, gas chromatography,..
 - Director of LARECO (Marche en Famenne) an independent certified laboratory specialized in analysis of food, water, soil, air (02/2000-02/2003).
 - Manage a team of 13 people (master & bachelor in chemistry, microbiology and pharmacy),
 - implement ISO certification and work according to quality norm ISO 17025,
 - technical advisor for industrials and authorities,
 - follow and develop new analytical technic and procedure in agreement with new norms.
 - Magnetron sputtering Process & products development manager for AGC (02/2003 - 2007).
 - Manage the start-up of new vacuum coating lines or the upgraded production coaters,
 - manage the scale-up phase and industrialization of the new coatings,
 - solve process problems on the 6 glass coating production lines in Europe (> 20 millions m²/an),

- improve continuously the industrial performances of the 6 coaters (yield, production costs, flexibility),
 - define the specifications of new coaters and negotiate the performances with suppliers,
 - develop and test new technologies through internal and external collaborations.
 - Technology development center manager for AGC (2007 - 2010).
 - Manage strategic project (~5 people /team/project) at European level and coordinate the action of R&D, engineering department and production plant to implement the innovations in the field of plasma and vacuum technologies.
 - Organize for the European coater production site accelerated exchange of best practices.
 - Define strategy of innovation of the coating technology in line with the marketing roadmap.
 - Anticipate the needs of the European market, propose innovative technical solutions, gather the multidisciplinary teams to realize it.
 - Scientific Coordinator at the R&D center for AGC (2010-2013).
 - Coordination of multidisciplinary teams – production plants -mathematical simulation - engineering – researcher — marketing – to develop vacuum and plasma technologies and industrialize them.
 - Manage the transfer worldwide of magnetron sputtering technologies to have a unique platform for coatings production (strategic global AGC project).
 - Coordinate the activity of R&D teams in Europe/US/Japan for the development of strategic technologies for vacuum coating and their industrial implementation.
 - Initiate long term collaboration between academic research centers and AGC R&D.
 - Chief scientist in AGC Technology center on coater and coating technology (2013-2015).
 - Development of Coating on Demand concept : customized coatings produced for architects.
 - Leader on worldwide project for the scale up of the hollow cathode and plasma enhanced chemical vapor deposition for glass applications.
 - Development and industrialization of new processes to control atomic thickness deposition for complex silver based coatings.
 - Director of AGC Plasma Technology Solutions (Since 2015).
- **Jeroen SCHOTSAERT** is **Business Development/Sales & Marketing Manager** at AGC Plasma Technology Solutions, AGC EUROPE.

Studies:

He graduated from the Free University of Brussels (VUB) in 1994 as a Civil Engineer in Chemistry with honours.

In 1995, he completed with honours a post-graduate Master in Polymer & Composites Engineering at Catholic University of Leuven (KUL – Belgium) & Ecole des Mines de Paris (France).

In 2007, he completed with honours an International MBA at Vlerick Leuven Gent Management School (Belgium).

Professional career:

From 1995 to 1998, he was a scientific Collaborator at SIRRIS – Liège - Technologie des Matériaux (former CRIF/WTCM - Belgium).

From 1998 till now, he joined GLAVERBEL s.a. (presently AGC EUROPE) and had different appointments:

From 1998 to 2004, he was R&D Project Leader at Glaverbel R&D Center in Charleroi. His focus was on physical & chemical modification of glass surfaces (mirror manufacturing, plasma treatment, etc...).

From 2004 to 2007, he was Technical & Commercial Coordinator at GLAVERBEL in Mol Plant (Belgium). His focus was the coordination of 3 Quality Depts & the Business Development for the Plant.

From 2007 to 2008, he was Project Manager at the worldwide coordination center of AGC group, to develop exchange of best practices between AGC's activities in the EU, Japan-Asia & USA.

From 2008 to 2012, he was Product Manager at AGC Flat Glass – Brussels to launch a new product range of TCO (Transparent Conductive Oxide) coated glasses used in the Photovoltaic Industry.

From 2012 till January 2018, he was Production Manager of 2 production departments at AGC Flat Glass in Mol, Belgium. One of the 2 production line was a magnetron glass coating line for automotive glass, the other for producing technical glass like acid etched glass used in displays.

From January 2018 till now, he is Business Development/Sales & Marketing Manager at AGC Plasma Technology Solutions,