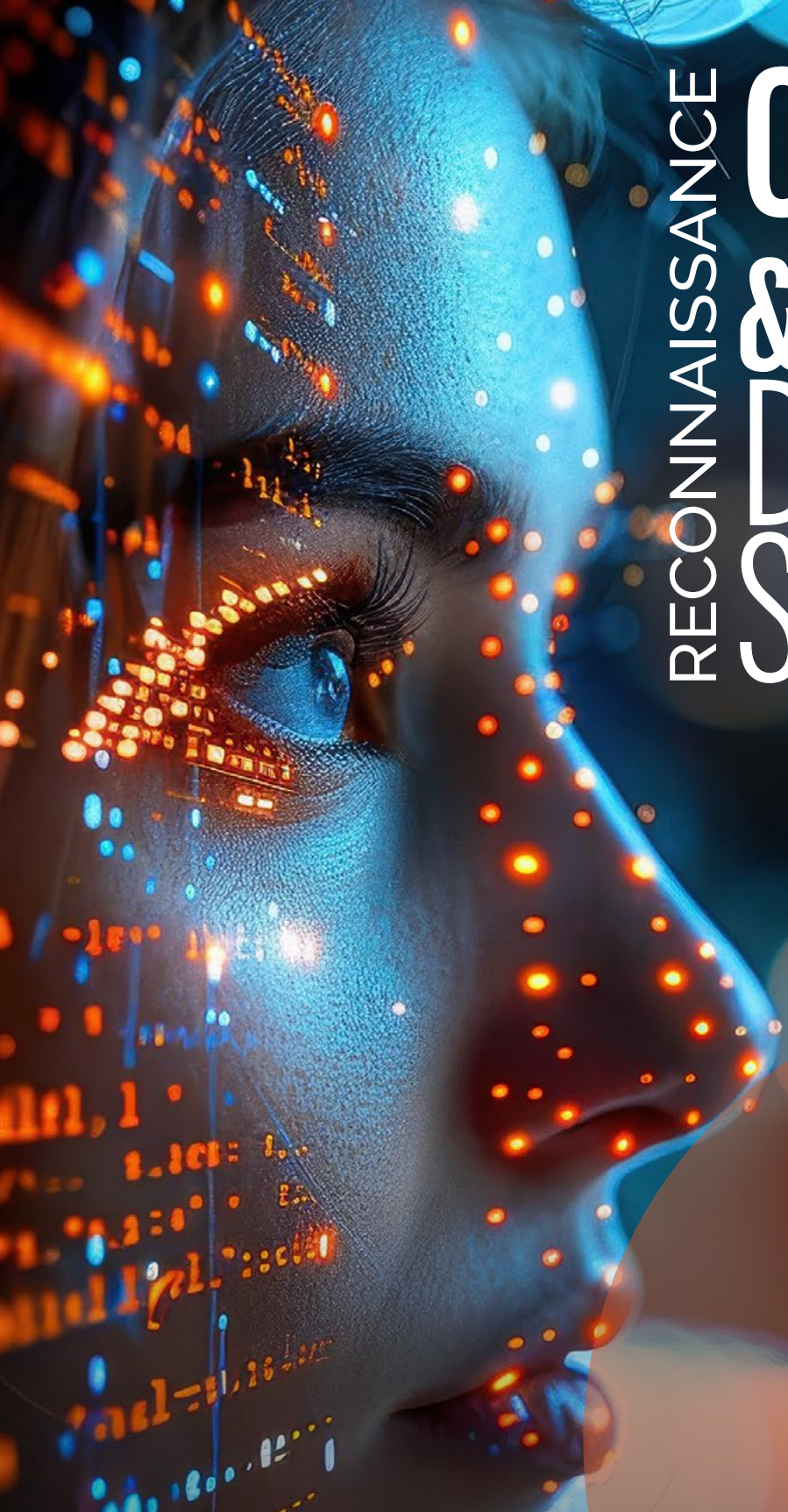

RECONNAISSANCE

OPTICAL & DIGITAL DOCUMENT SECURITY™

15–17 SEPTEMBER 2025

Warsaw, Poland

The technical conference for physical, digital and virtual document security.

opticaldigitalsecurity.com

This Conference will cover physical and digital documents and the interface between these domains. It will bring together practitioners in the secured document field with those working in the digital domain to explore options for novel solutions and to work together to enhance personal data security.

The Committee

Dr Paul Dunn – IHMA

Jörg Fischer – Bundesdruckerei

Franziska Granc – Nimbus Technologieberatung

Sun Kai – CBPM

Ian Lancaster – Lancaster Consulting

Joshua M. Mármol – GET Group

Tony Poole – AJW

Dr Harald Walter – OVD Kinegram

Mikihiko Sakakibara – Seculysis

Johannes Schaede – Member of the Board of Directors at Orell Füssli AG

Francis Tuffy – Reconnaissance International

> *The ODDS seminars were very worthwhile, and were money well spent. They also laid the groundwork for the remainder of the conference.*
>
> **Document Security Alliance (DSA)**

Our Table Top Exhibitors

ÅNGSTROM TECHNOLOGIES, INC.	ARA Authentic	Colour Synthesis solutions	DSA ENHANCING DOCUMENT AND IDENTITY SECURITY
foster+freeman®	IOTA	IQ STRUCTURES	KOENIG & BAUER
LUMINESCENCE Sun Chemical Security a member of the DIC group	luminochem Bright marking solutions	NANOSILIKHAN ADVANCED MATERIALS 나노실리칸첨단소재	PHS Polish Holographic Systems
RAITH NANOFABRICATION	SICPA	univect	

The Technical Conference for Physical, Digital and Virtual Document Security



Since its inception, the Optical & Digital Document Security™ (ODDS) conference has distinguished itself as the definitive forum for physical, digital, and virtual document security. No other event consistently draws together the world's leading minds, technologies, and innovations. As the pace of digital transformation accelerates and the threats to document integrity grow ever more sophisticated, ODDS 2025 could not be more relevant. From optical features on a physical passport or banknote to quantum-resilient cryptographic protections, this conference provides a unique and critical space to examine how we secure documents and identities.

The strength of ODDS 2025 lies not just in its scope but in the technical calibre of its content. The programme – built with guidance from a globally respected Technical Committee – addresses both discovery science and applied solutions. Across eight focused sessions, we will explore how optical structures such as zero-order diffractive elements and full-parallax imaging are advancing, how machine learning is both attacking and defending our security systems, and how hybrid architectures are forming the new standard for robust document authentication.

Pre-conference seminars dig into the operational realities: from the mechanics of euro counterfeiting and the legal response, to the detailed architecture of Europe's emerging digital identity framework. These are not theoretical exercises – they are the systems, threats, and defences shaping our sector today.

This is the first ODDS conference I have the honour to lead as Programme Director. Succeeding Ian Lancaster – who now continues as Conference Emeritus – is both a privilege and a responsibility. I know how much this conference means to our community, and I will work hard to maintain its position as 'THE technical conference for physical, digital and virtual document security.'

Francis Tuffy, Programme Director, ODDS 2025

Who Should Attend

Optical & Digital Document Security is a forum to meet, share ideas and establish mutual understanding across the digital and physical document security domains.

So we recommend that you attend if you are:

- Involved with the design, production or examination of any government-issued security document, whether physical or digital, including financial, tax and identity documents
- or similarly involved with private sector transaction facilitation, payment apps, credit cards, online ordering and payment, identity cards, transport or event ticketing
- a specifier, developer, designer or producer of physical security features or digital security equipment or software
- a researcher or academic looking into security issues for physical or digital approaches;
- a researcher or developer in the security component, biometrics or security printing fields
- a producer or designer of systems and equipment for the production, personalisation, issuance or reading of secure documents and/or data
- involved in researching or developing methods for the human interaction with physical secured documents or digital ID or transaction systems
- or involved in any other way with security systems or secured documents.

15 September

Countering Counterfeits: Threats, Trends and Law Enforcement Response

09:00 – 10:00

Jacek Walaszczyk, Europol

This seminar provides a detailed overview of euro counterfeiting, from historical developments to current threats. It explores the methods and materials used by counterfeiters, their links to organised crime, and how technologies like digital printing, the dark web, and social media contribute to the problem. The session highlights key law enforcement actions, including the dismantling of illicit print shops and Europol's role in combating currency counterfeiting across Europe.

What's Next for Optically Variable Features

10:30 – 12:00

International Optical Technologies Association (IOTA)*

In this seminar you will explore the future of optical technologies in secure document design. It addresses current technological advances, shifting security demands, and evolving threats that influence optical technology development. Through expert insights and real-life examples, the session highlights how optical technologies must adapt to remain effective in both physical and digital authentication.

Current IOTA members receive free access to this seminar. To register your interest, please contact Hannah Shildrake at* **Hannah@recon-intl.com.

European Digital Identity Wallet: Shaping the Future of Digital Interaction in Europe

13:15 – 16:15

Franziska Granc (Nimbus Technologieberatung) and Jörg Fischer (Bundesdruckerei)

The seminar introduces the European Digital Identity Wallet (EUDIW) within the framework of eIDAS 2.0. It covers the regulation's goals, terminology, and its impact on digital identity and trust services. Attendees will learn about the wallet's architecture, features, and its transformative role in public and private sector interactions. The session also reviews the current implementation status, including pilot projects, national strategies, and the Architecture and Reference Framework (ARF).

Pre-conference seminars

> *"This is the leading conference from a technology perspective for our industry & long may it continue"*
>
> **OpSec**



16 September

Conference Welcome

Welcome
Francis Tuffy and **Ian Lancaster,** Reconnaissance International *(UK)*

Session 1: Cutting-Edge Optical Security Features

RollingStar® Venus: Dynamic and Precise Coloration
Matthias Blazek, Louisenthal *(Germany)*

Innovative Machine-Readable Infrared Absorbing Features
Aldric Molina and Marlyse Demartin Maeder, SICPA *(Switzerland)*

3D Light-field Technology with a Full Parallax Effect
Dr Weiwei Zhang, ZSST – CBPM Group *(China)*

Session 2: Advances in Holography and OVDs

Stable Color 3D OVDs
Satoshi Uchida and Yoshi Mizuguchi, Toppan Digital *(Japan)*

Gray-Scale Holographic Structures
Tomas Kohut, Technical University of Ostrava *(Czech Republic)*

Zero-Order Structures for Robust Optical Security
Julia Petit, SURYS – IN Groupe *(France)*

Session 3: Material Innovations in Anti-Counterfeiting

Paper-Plastic Composite Anti-Counterfeiting Technology
Cui Liu, China Banknote Printing and Minting Corporation – CBPM *(China)*

Macool: Analog Graphic Security
Marian Amariei-Docan, Docart *(France)*

Exploring the Applications of Flexible Display Technology in Anti-Counterfeiting
Cui Liu, China Banknote Printing and Minting Corporation – CBPM *(China)*

Session 4: Evaluation & Standards in Optical Security

ISO 22388 Security Evaluation
Manabu Yamakoshi, National Printing Bureau *(Japan)*

Digitizing Optical Security Features for the Future
Heeyeon Kim, NANOSILIKHAN Advanced Materials *(South Korea)*

Optical Document Security, 4th Edition
Ian Lancaster, Lancaster Consulting *(UK)*

IOTA Excellence in Optical Technologies Awards Ceremony
Dr Mark Deakes, International Optical Technologies Association – IOTA *(UK)*

17 September

Session 5: AI, Perception, and Intelligent Scanning

AI in Barcode Scanning
Julia Dean, Luminescence Sun Chemical Security *(UK)*

Banknotes Image Analysis using PerceptNote®
Ernesto González Candela, UnderCurrency *(Mexico)*
Jane Raymond, Secure Perception Research Ltd *(UK)*

AI Vulnerabilities in Verification
Prof Dr Volker Lohweg, Institute Industrial IT – inIT *(Germany)*

Session 6: Securing Documents in the Digital Era

JAGUAR - Digital Security for Banknotes
Christian Sailer, Orell Füssli *(Switzerland)*
Justin Picard, ScanTrust *(Switzerland)*

Quantum-Safe Cryptography
Jörg Fischer, Bundesdruckerei *(Germany)*

Color-Changing Particle-in-a-Particle
Michael Natan, Diametryx *(USA)*

Session 7: Future Concepts

Deep Sub-Wavelength Plasmonic OVDs
Clint Landrock, Authentix *(Canada)*

Leveraging Cryptographically Signed Biometric Barcodes for both Physical and Digital Identification
Geoff Slagle, FaceTec *(USA)*

Session 8: Hybrid Solutions for Document Protection

H010: QR + Holography Tool
George Hall, H010 *(UK)*

Bosch + ANY Joint Solution
Adrian Monostori, ANY Security Printing Company *(Hungary)*
Olivier Steinbis, Bosch Secure Authentication *(Germany)*

Secrets Within Layers
Iris Van Gessel, IAI Industrial Systems *(Netherlands)*

Panel Discussion

Should Optical Security Devices be More Digital Friendly?

As digital verification tools become increasingly prevalent in document security, the integration of optical security features with digital readers, authentication apps, and AI tools has become a design requirement.

But is digital integration truly the right direction for optical security? Should the field instead focus on enhancing the inherent strengths of optical devices – visual impact, durability, and resistance to simulation – rather than becoming just another feature of a digital-first world?

This panel will examine whether the pursuit of digital compatibility risks diluting what makes optical security effective in the first place.

For the latest times and additions to the programme, visit
opticaldigitalsecurity.com

How Can We Help You?

RECONNAISSANCE

PUBLICATIONS



NEWSLETTERS

Authentication & Brand News • Currency News • Cash & Payment News • Coin & Mint News • Holography & Optical Technology News • ID & Secure Document News • Tax Stamp & Traceability News

DIRECTORIES

The Directory of Currency Suppliers • The Directory of Circulating Coins • The Directory of ID & Secure Document Suppliers

REPORTS

Cash: A Roadmap to Sustainability • Diffractive Features on Banknotes • Printing Beyond Colour • Tax Stamps and Traceability: A Market Analysis and Technical Update • Security Threads for Banknotes • Smartphones for Authentication

EVENTS



HIGH SECURITY PRINTING

Asia • EMEA • Latin America

OUR OTHER CONFERENCES

Cash Sustainability Forum • Optical & Digital Document Security • The Coin Conference • Tax Stamp & Traceability Forum

PARTNER EVENTS

African Currency Forum • The Future of Cash • Mint Directors Conference • Security Document Forum

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RECONNAISSANCE

OPTICAL & DIGITAL DOCUMENT SECURITY™

> *"An interesting and thought provoking conference, bringing together many technologies and perspectives, united by digital security."*
>
> Luminescence SunChemical Security

Useful Information

Registration

To be part of Optical & Digital Document Security™ 2025, **click here** to book online.

Pre-conference Seminars

Add one or more of the three pre-conference seminars to your booking.

Fees

- £ 1,450*/£ 1,600 Delegate
- £ 1,100*/£ 1,250 Presenter
- £ 950 Academic**/Researcher/Student

Pre-Conference Workshop

- Countering Counterfeits: Threats, Trends and Law Enforcement Response £ 325
- What's Next for Optically Variable Features – IOTA* £ 325
- European Digital Identity Wallet: Shaping the Future of Digital Interaction in Europe £ 650

Current IOTA members receive free access to this seminar. To register your interest, please contact* **Hannah Shildrake *at* **Hannah@recon-intl.com**.

Sponsorship and Exhibitor Opportunities

- App & Handbook: £ 3,000
- Coffee-refreshment-lunch breaks over 2 days: one day £ 3,100 / two days £ 6,200
- Welcome Reception: £ 2,400
- Farewell Drinks: £ 2,400
- Lanyards & Badges: £ 2,400

Contact **Samantha Burns** for more information: **sam@recon-intl.com**

Reserve Your Table-Top Exhibition

- £ 655*/£ 730

Optical & Digital Document Security includes an informal topical exhibit for hands-on demonstrations of the latest security technologies. Tables will be made available for all presenters to show examples illustrating their paper.

Non-presenters are also welcome to show their document security products and techniques to this specialist and decision-making group. Contact – **sam@recon-intl.com**.

Conference Dinner and Exhibition

On the evening of 16 September we will be holding a table-top exhibition and buffet dinner. This informal setting is the perfect opportunity for delegates to see, handle and discuss in detail what is happening in this field.

The exhibition and dinner is an excellent opportunity for meeting and learning more about your fellow delegates. It is an occasion for all conference participants to show their results in an informal ambience and will be a very lively event!

Here to Help

If you have any questions about the conference, contact the conference team:

Abigail Courage, Conference Manager
Tel: +44 (0)1932 785 680
Email: **events@recon-intl.com**

Other Information

- **Your Conference Organiser:** The event is organised by Reconnaissance International, the leading source of business intelligence for authentication, identity, security printing and holography. Visit **www.reconnaissance.net**
- **Release:** We reserve the right to cancel, modify or postpone the event without prior notice and to refuse admission to any person (with payments refunded).
- **Terms and Conditions:** Visit **www.reconnaissance.net/terms** for full terms.

** Ends 15 June 2025*

*** Academic rate applies to delegates (researchers, students) from universities or other educational establishments*

RECONNAISSANCE INTERNATIONAL
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Email: events@recon-intl.com
www.reconnaissance.net