

Do not miss this unique opportunity to hear case studies, strategies and solutions for innovative interior equipment from the following leading companies:

Ingo Wuggetzer, Vice President Cabin Innovation & Design

AIRBUS DEUTSCHLAND GMBH, GERMANY

Michel Pebarthe, Aircraft Upgrade Unit Director

AIR FRANCE INDUSTRIES S.A., FRANCE

Helmar Zangerl, Managing Director

BARTENBACH LICHTLABOR GMBH, AUSTRIA

Eric Kaduce, Senior Engineer,
747 Derivative Product Development

BOEING COMMERCIAL AIRCRAFT, USA

Walter Fleischmann, Vice President Sales/Marketing

DIEHL AEROSPACE LUFTFAHRTELEKTRONIK GMBH, GERMANY

Dr. Andreas Holm, head of department thermal comfort & durability

FRAUNHOFER-INSTITUT FÜR BAUPHYSIK, GERMANY

Sven Koppert, Marketing Manager
GOODRICH LIGHTING SYSTEMS GMBH, GERMANY

Peter Lewalter, Technical Director Lufthansa FlyNet

LUFTHANSA GERMAN AIRLINES, GERMANY

Thomas Ohnimus, Specialist for cabin safety & environmental systems

LUFTFAHRTBUNDESAMT, GERMANY

Dave Crossett, Innovation Engineering
LUFTHANSA TECHNIK AG, GERMANY

Dr. Roland von Ballmoos, New Business Development

LANTAL TEXTILES, SWITZERLAND

Les Simpson, Chief Executive
MGR FOAMTEX LTD., UK

George Cluett, Sales Director
METZELER TECHNICAL RUBBER SYSTEMS INC., USA

Lena Erneling Albers, Manager Product Concepts
SAS SCANDINAVIAN AIRLINES INTERNATIONAL, SWEDEN

INNOVATIVE AIRCRAFT INTERIORS

Intelligent lighting concepts and smart functionality, design, materials & textiles - innovative seating & ergonomics - cabin brand development

Hear the latest trends and developments for innovative aircraft interiors

- Learn how to **evaluate** and **implement** innovative **solutions** when it comes to fleet configuration
- Find out how to **integrate special design features** when facing the challenge of cabin upgrade
- Master the challenge of **weight reduction** by using light weight foams and pneumatic cushions in seats
- Discover **innovative lighting concepts** and **latest in-flight communication** solutions and interfaces
- Explore what is behind when differentiate **first class design** from **business class design**
- Hear about how to build up **cabin work stations** and coming possibilities of **broadband technology**
- Discover new **intelligent materials** and how to **improve** their **application**

Highlight

Process of fleet reconfiguration SAS's strategy to ensure seating comfort

Lena Erneling Albers
Manager Product Concepts
SAS Scandinavian Airlines International

Intensive executive workshops:

- Intelligent LED Cabin Lighting
- Intelligent interior lighting: How does light influence the ambience and wellbeing
- Optimization of seating comfort and provision of advanced bedding technology
- Continuous process cabin refurbishment

To Register

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INNOVATIVE AIRCRAFT INTERIORS



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Greetings,

Today the aircraft interior does not only include comfortable aircraft seating arrangements or high end technology solutions. The most crucial point is to consider individual customer needs when it comes to aircraft configuration.

The creation of interfaces between high comfort seating and the increasing possibilities of **on board communication** is only one challenge when it comes to **intelligent interior concepts**. The challenge is to **optimize seat ergonomics** but **minimize seat weight** and to meet with **legal restrictions**. What new materials will be used to improve the interiors appearance with consideration to weight aspects. Learn about the latest trends in **cabin interior lighting**, including **intelligent LED lighting** and mood lighting. These challenges have to be considered, as well as the process of **supplier coordination and cost factors**. This is why new concepts and ideas for aircraft interior solutions are an absolute must-have for OEM's, airlines and suppliers in order to increase market share.

Therefore, you cannot afford to miss this innovative international conference on

AIRCRAFT INTERIORS

31st January - 2nd February 2006
Radisson SAS Hotel, Frankfurt a.M., Germany

- OEM's will speak about their **latest trends in cabin configuration** and **design**
- Hear how to match the customer's requirements on **seating comfort** and the **lightweight manufacturing** of the seats
- Learn how to implement **new lighting solutions** into the cabin
- Discover properties of latest trends in **cabin reconfiguration** and new **materials for seats**
- Learn about business class **configuration** and how to **combine design** and **functionality** when it comes to cabin equipment.
- Learn about the crucial requirements on **aircraft seating** and how to **adopt the solutions** into the cabin design.

International speakers from OEMs such as **Airbus Deutschland GmbH** and **The Boeing Company** will present their latest strategies in innovation and cabin design. Case studies from **Intercontinental SAS Sweden** and **Lufthansa German Airlines** give detailed information about how to tackle future challenges. Leading solution suppliers such as **Lufthansa Technik**, **Air France Industries** or **Diehl Aerospace Luftfahrtelektronik GmbH** will present cutting-edge case studies on innovative interior solutions!

Simply fill out the registration form and fax back to **+49 (0) 30 20 91 33 12!**

Looking forward to meeting you in Frankfurt!

Best regards,

Your management IQ Team

Who will you meet?

Industry:

- International OEMs
- Airlines
- Suppliers for seating systems and components
- Material suppliers
- Suppliers of electronics

Job function:

- Heads
- Directors
- Senior Engineers
- Program Managers
- Project Leaders

Departments:

- Research and Development (R&D): seating, electronics, design
- Construction
- Design
- Product management and development
- Business development
- Sales
- Marketing

The participants will include decision makers from:

- Cabin interiors
- Avionics/Avionics engineering
- Product department
- Maintenance and engineering
- In-flight services
- Customer development
- Interiors engineering

Highlight

Process of fleet reconfiguration SAS's strategy to ensure seating comfort

Lena Erneling Albers, Manager Product Concepts
SAS SCANDINAVIAN AIRLINES INTERNATIONAL

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Aero International (founded in 1993) is the leading magazine for civil- business aviation in Germany, Austria and Switzerland with an audited circulation of more than 33000 copies per month. Aero International covers the whole range of civil aviation, from business aircraft to large airliners, airlines, airports and air freight / logistics.

The magazine also contains about 20 news pages every month that present new products, recent developments, management changes, and similar facts.

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8:30 Registration and welcome coffee

9:00 Opening Remarks from the chairman

Latest trends in cabin design and new materials

9:15 **Meeting customer demands - The main objective for cabin innovation**

- Meeting customer demands as the main driver in cabin innovation
- Future challenges with regard to new technologies
- Major drivers for aircraft interiors development for the next decade
- New approaches to provide the customer with the best cabin solution

Ingo Wuggetzer, Vice President Cabin Innovation & Design

AIRBUS DEUTSCHLAND GMBH, GERMANY

10:00 **Innovative methods of cabin configuration**

- Cabin configuration of the Boeing 747
- Changing payload aspects
- Innovative methods of using unused cabin space
- Passenger revenue calculations

Eric Kaduce, Senior Engineer, 747 Derivative Product Development

BOEING COMMERCIAL AIRCRAFT, USA

10:45 Morning Coffee

11:15 **Mastering aircraft interior refurbishment programs**

- Adapted management of interior refurbishment programs
- Integration as the best solution through project mastering and resolution
- Cabin interiors industrial aspects as a strategic issue of the fleet asset

Michel Pebarthe, Aircraft Upgrade Unit Director

AIR FRANCE INDUSTRIES S.A., FRANCE

12:00 **New materials and economic methods of cabin modification**

- Low weight solutions and safety in floor covering systems
- Silicone rubber instead of PVC Plastic
- Cabin products selection under technical and maintenance criteria
- Possibilities of reducing maintenance costs

George Cluett, Sales Director

METZELER TECHNICAL RUBBER SYSTEMS INC., USA

12:45 Networking Lunch

Technology and innovative design as a value added service

14:00 **Integrated cabin solutions - in touch from 40.000 feet**

- Providing wireless access to the aircraft LAN
- One mobile access router for everything
- Mobile voice, fax and high speed data communications
- Access via Gatelink, GPRS, MPDS and ISDN

Dave Crossett, Innovation Engineering

LUFTHANSA TECHNIK AG, GERMANY

14:45 **On board aircraft internet connection Broadband technology: Delivering high-end services at low prices?**

- Pricing
- Customer benefit
- Future possibilities
- CBB and what to keep in mind

Peter Lewalter, Technical Director Lufthansa FlyNet

LUFTHANSA GERMAN AIRLINES, GERMANY

15:30 Afternoon Coffee

16:00 **What are the customer demands in the next 10 years?**

Panellists are compromised speakers of the day



16:45 **Latest research methods in air ventilation**

- Thermal aspects of cabin climate
- Research development and possibilities
- Latest research results to improve air quality
- Possibilities of research in a low pressure environment

Dr. Andreas Holm, head of department thermal comfort & durability

FRAUNHOFER INSTITUT FÜR BAUPHYSIK, GERMANY

17:30 Chairman's summary and close of day one

Any sufficiently advanced technology is indistinguishable from magic.

Arthur C. Clarke (1961)

8:30 Registration and welcome coffee

9:00 Opening remarks from the chairman
Lena Erneling Albers, Manager Product Concepts
**SAS SCANDINAVIAN AIRLINES
INTERNATIONAL, SWEDEN**

Intelligent lighting concepts

9:15 **Future of cabin lighting- more than mastering a technology change**

- Light sources - update of mature technologies
- Color blending - how to balance production variance and operational influences
- Trade off between hybrid and all-LED solution
- Lighting control and crew operation

Walter Fleischmann, Vice President
Sales/Marketing
**DIEHL AEROSPACE LUFTFAHRTELEKTRONIK
GMBH, GERMANY**

10:00 **Light and wellbeing in aircraft cabins**

- Psychological aspects - light and wellbeing
- Physiological aspects - light and perception
- Flight phases - the right light at the right time
- Jet leg - and how to minimise it

Helmar Zangerl, Managing Director
BARTENBACH LICHTLABOR GMBH, AUSTRIA

10:45 Morning Coffee

11:15 **Legal restrictions in aviation**

- Legal restraints vs. product innovation
- Differences in legal guidelines between EASA and FAA
- Scheduling and accomplishment in practice
- Outlook on new legal restraints

Thomas Ohnimus, Specialist for cabin safety & environmental systems
LUFTFAHRT-BUNDESAMT, GERMANY

12:00 **LED "Mood lighting" - What do customers really like?**

- Advantages: appearance, flight experience, lifetime
- Challenges: color selection
- Installation: sharing experiences
- Technical issues: brightness, temperature, durability

Sven Koppert, Marketing Manager
**GOODRICH LIGHTING SYSTEMS GMBH,
GERMANY**

12:45 Networking Lunch


Optimizing passenger comfort within aircrafts

14:00 **New features & materials for innovative executive seats**

- Evaluation of customers needs
- Process of fleet reconfiguration
- Features of the seating chairs to meet customers needs
- Implementation national design into the cabin design

Lena Erneling Albers, Manager Product Concepts
**SAS SCANDINAVIAN AIRLINES
INTERNATIONAL, SWEDEN**

14:45 **Fleet configuration - How to involve OEM, Airline and Suppliers the most effective way**

 Open Discussion

Chaired by
Lena Erneling Albers, Manager Product Concepts
**SAS SCANDINAVIAN AIRLINES
INTERNATIONAL, SWEDEN**

15:00 Afternoon Coffee

15:30 **Redefining comfort - looking at the myths, emotion and science in establishing the comfort standard for modern day aircraft seating**

- Moving from the 10 to 30 minute "bum test" to a sophisticated and extensive system of ergonomic studies, sleep trials, pressure mapping and other scientific measuring methods
- Introducing a new generation of soft touch, lightweight and pressure sensitive foams
- Multi Postural Seating (MPS) for first- and business-class lie-flat beds and Ecomfort for economy class
- Sharing the SAS experiences in redefining comfort

Les Simpson, Chief Executive
MGR FOAMTEX LTD, UK

16:15 **A revolutionary solution in lightweight seats**

- The lightweight pneumatic seat cushion
- What was the driver to develop this solution
- Flammability aspects and guidelines
- Sharing first experiences by Eurofly

Dr. Roland von Ballmoos, New Business Development
LANTAL TEXTILES, SWITZERLAND

17:00 Chairman's summary and close of day two

■□□ Workshop A | 9:00 - 12:30

Innovative LED cabin lighting

This workshop is directed to delegates from the airlines interior avionics sector, and those industries facing new challenges in LED interior lighting. Learn about what influence lighting has on cabin design. Will intelligent cabin lighting provide amazing effects or un-obtrusive background? What is light quality? The supplier of Boeings 787 interior lighting will share its technical expertise when

it comes to modern interior lighting. The target of the workshop is to provide a common understanding for the demands and technologies that are necessary to fulfil future requirements.

**Walter Fleischmann, Vice President Sales/Marketing
DIEHL LUFTFAHRTELEKTRONIK GMBH, GERMANY**

■□□ Workshop B | 9:00 - 12:30

Intelligent interior lighting

How does light influence the ambience and wellbeing

- Psychological aspects - light and wellbeing
- Physiological aspects - light and perception
- Flight phases - the right light at the right time
- Jet leg - and how to minimise it

This workshop is focused on the effect of light in vehicles (aircraft, trains, buses). The relationship between various lighting concepts employing typical light sources and their impact on the appearance of the cabin will be investigated. During a discussion we will "highlight" all important criteria determining the quality of light and how it contributes to the wellbeing of the passengers.

**Helmar Zangerl, Managing Director
BARTENBACH LICHTLABOR GMBH, AUSTRIA**

■□□ Workshop C | 13:30 - 17:00

Optimization of seating comfort and providing advanced bedding technology

The new generation of soft-touch-, lightweight- and longevity foams. Learn about the application of the Multi Postural Seating (MSP) in first- and business-class lie-flat beds.

This workshop will discuss the latest developments in approval compliance:

- Dynamic testing 16G and 14G
- Flammability

- Installation (maintenance of the TSO).
- Smoke and toxicity

Furthermore this workshop will focus on ergonomic studies:

- Setting up criteria
- Major influences
- Reading and interpretation of the results

Learn about the latest news on weight saving as well as mid-life refresh implication.

**Les Simpson, Chief Executive
MGR FOAMTEX LTD, UK**

■□□ Workshop D | 13:30 - 17:00

Continuous process cabin refurbishment

The process of cabin refurbishment requires an adapted management. In this workshop you learn about the best

solution through project mastering and resolution. Independent from the size of the fleet and the aircraft dimensions, you will get to know the latest solutions.

For more information visit www.iqpc.de/de-2449

A very good mixture of current applications, future trends and upcoming technologies

Dr. Thomas Däubler, **Botest**