MENALAC

MENALAC WEBINAR

KEEP THE FUN RUNNING:

Pre-Emptive Maintenance & Ride Safety Made Simple

THURSDAY
16 OCT. 2025
10 AM - 11 AM

ONLINE

Frieder Rehm
VP, Technical Services, ALEM Global

ALEM

A BIG THANK–YOU
to our Benefactor Members

بان
BAAN

ماجد الفطيم
MAJID AL FUTTAIM

العثيم للترفيه
Al Othaim Entertainment

LANDMARK
LEISURE

Play

رفيه
Rafeeh
Entertainment Group

ideaCrate

Meet Our Partner - ALEM GLOBAL: عالم

- ALEM (Active Leisure Equipment Maintenance L.L.C.). www.alemglobal.co
- You have a single ride or a whole range of rides to be installed, relocated, maintained, or refurbished? ALEM assesses your requirements, does the actual work, sources and supplies the spare parts, documents the progress & results and coordinates with the local inpection body.
- Our management team and supervisors represent decades of experience. We are familiar with all main manufacturers, their ride designs, and project management teams.
- We are predominantly German and we do things in the German systematic and structured ways. Still, ALEM stands for intercultural adaptability and for the willingness to comply with the requirements of this diverse world.
- We are already local in Dubai and will be present in Abu Dhabi and Saudi Arabia soon.

Meet Our Partner - ALEM GLOBAL: عالم

ALEM

THE ALEM CYCLE

About Me:

- Frieder Rehm, VP Technical Services, ALEM Global
- 20+ years in ride engineering and manufacturing including Head of the Service Department
- experience across roller coasters, water rides, dark rides, and more
- worldwide mission to keep rides safe and guest-ready
- mechanical engineer with heart and soul and by profession – Maschinenbau Diplom-Ingenieur TU Berlin

Session Overview:

What this webinar will cover:

- The Current Situation
- The Factors with an impact = Challenge
- The Solutions

- Closing with: Live Q&A with Frieder. *(Keep the questions coming in the chat)*

Why maintenance?

To achieve a safe and reliable ride operation.

Reliability creates Safety and is cost-effective.

No matter the size or simplicity -

never underestimate, what we are doing, please!

Current situation

Different ride systems
coaster, water rides, dark rides, round rides, towers, flying theaters, playground etc

Different technologies

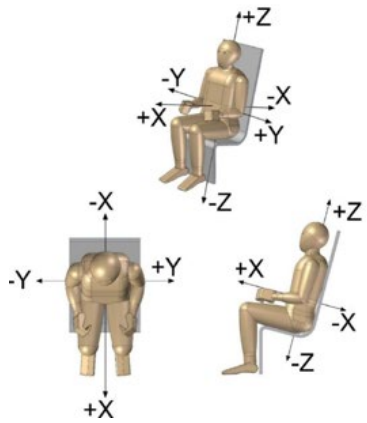
Different manufacturers

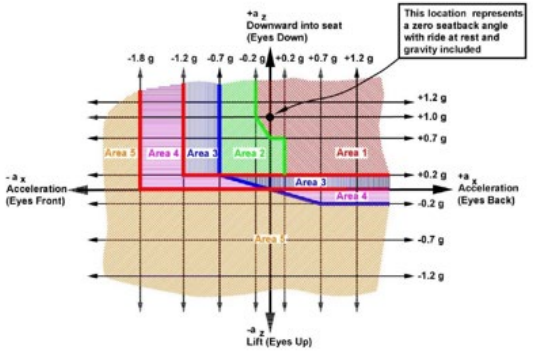
Facilities
station, workshop, ride area
Show - light and sound, decoration, props
food & beverage, HVAC, landscaping etc

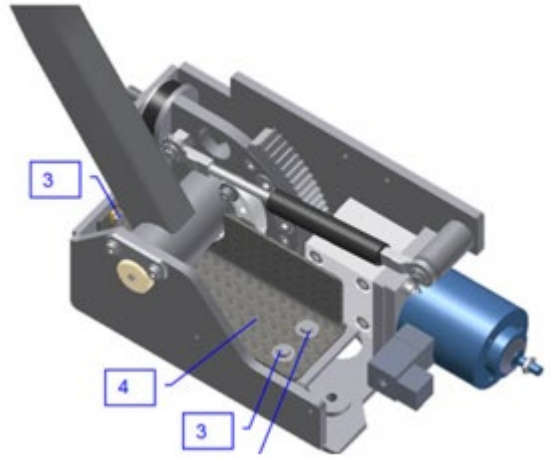
Current situation

Different technologies - vehicles

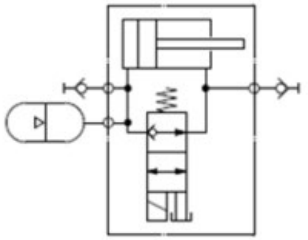
Passenger containment

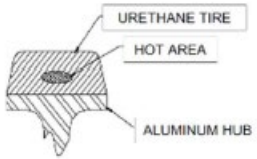


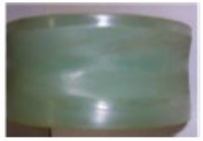




vehicle

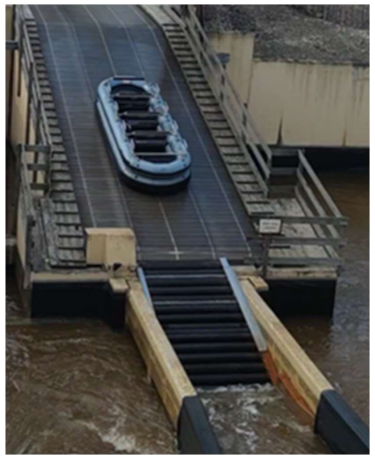


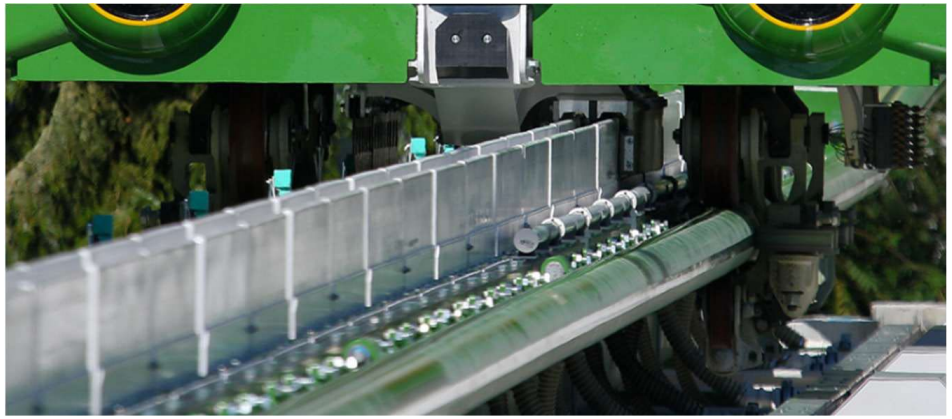


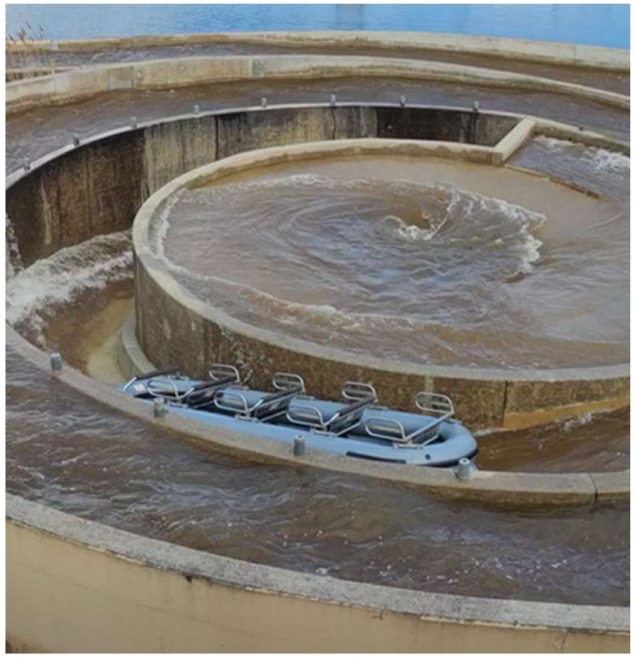


Current situation

Different technologies – drives

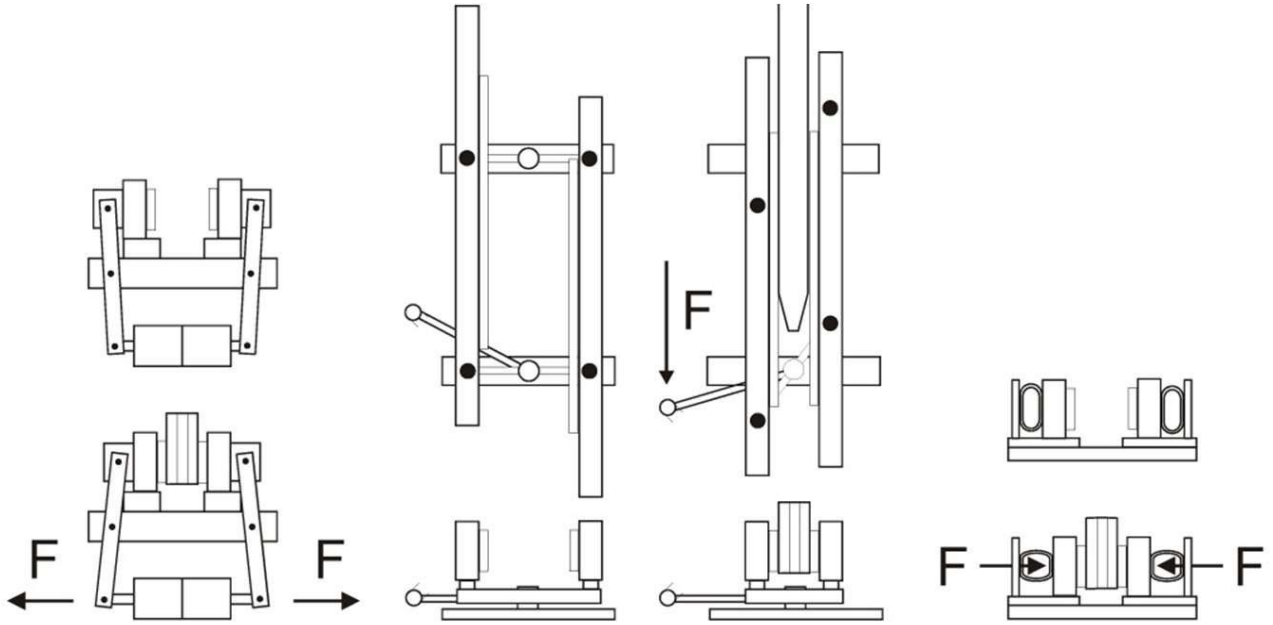






Current situation

Different technologies – brakes



Current situation

Different technologies – control system

Factors with an impact

Passenger transportation
Safety requirements

Different technologies in different ride systems of different manufacturers
Mix and combinations, functionalities, age of equipment

Available documents
Manuals, drawings, BOM, electrical diagrams, instructions, bulletins etc

Qualifications
Inhouse and from outside

Budget
Cost control

Terms of operation
Operating periods

Factors with an impact

Environment
Location and climate

Wear and tear
Constant change of state and conditions of equipment

Corrosion

NDT

Regulation
Third Party, Safety- and Service-Bulletins, Standards

Trouble-shooting

Different phases of a ride´s life

Phase 1 – planning for a new ride system

Phase 2 – commissioning a new ride system

Phase 3 – existing ride with good (?) availability figures

Phase 4 – planning for a retrofit

Solutions - immediate

Communication

Information and Knowledge - Training

TLC - Torquing, Lubrication and Cleaning

Determine and evaluate the current ride condition

Evaluate the ride ´s history

Determine required and available needs

Review and update all technical documentation

Review organization

Solutions

Standard ride maintenance planning

Determine and allocate:

- information, methods, parts, tools and qualifications
- locations in the ride
- test runs
- NDT

Evaluate feedback

Decide and implement further action

Coordinate with service providers (specialist, manufacturer, OEM)

Solutions

Risk assessment and analysis of maintenance

Five step process
1, impact of the component / function on safety and availability

2, history of the component / function

3, possibility to inspect and maintain the component / function

4, purchasing and lead times

5, planning and scheduling

Result: preventive – predictive - reactive

Solutions

Further methods and strategies

1, Reliability Centered Maintenance RCM

2, Integrated Logistic Support ILS

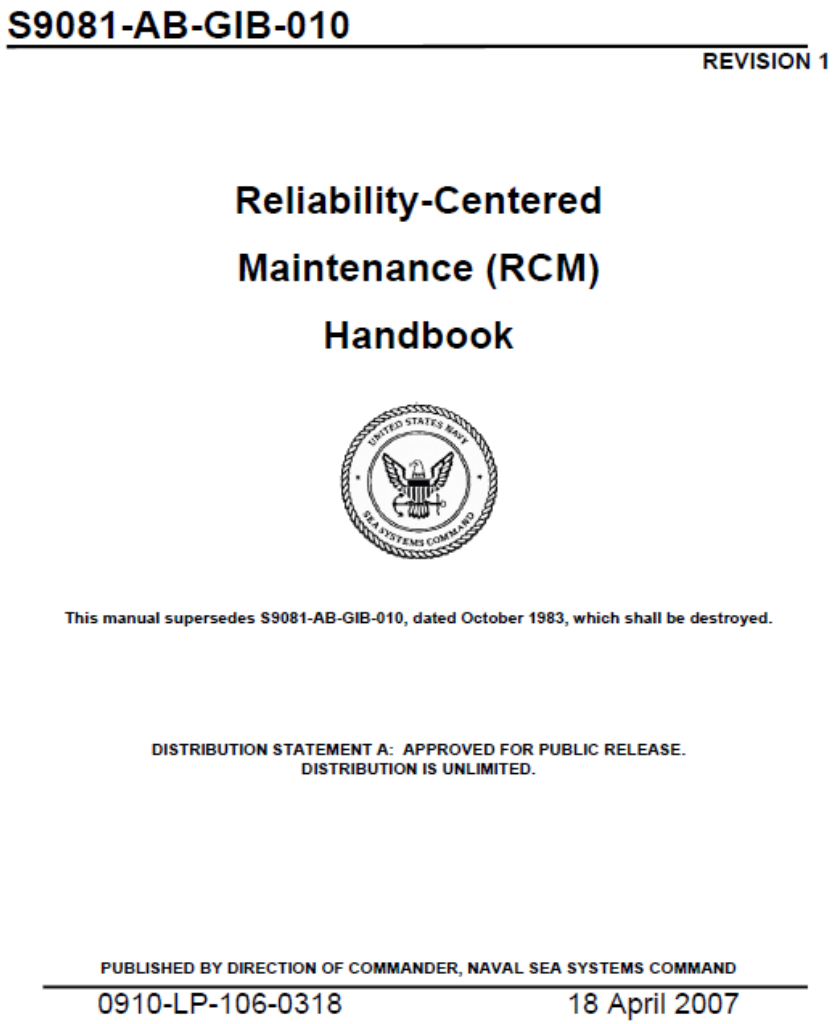
3, Asset management – Cost Control

4, going digital - CMMS

a, maintenance planning software

b, collect and evaluate data eg with smart sensoring

c, AI



S9081-AB-GIB-010

REVISION 1

Reliability-Centered Maintenance (RCM) Handbook

This manual supersedes S9081-AB-GIB-010, dated October 1983, which shall be destroyed.

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Key Take-Aways:

- Why “pre-emptive” beats “reactive.”
- Why reliability = safety.
- Practical habits to prevent costly breakdowns.
- Smarter planning = reduced costs & longer ride life.

Live Q & A:
Your Questions Answered

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Thank You!