AGENDA

- Thin-film coatings
- Manufacture vs Lab
- Lab and Tango
- Synthesium
- Road-map
THIN-FILM COATINGS

DEPOSITION OF REFLECTIVE OR ABSORPTION LAYERS ON OPTICAL & ARCHITECTURAL GLASS
THIN-FILM COATINGS

APPLICATION OF ANTI-ABRASIVE COATINGS ON TOOLS, WATCHES, DOOR HANDLES, POLYCARBONATES, etc.
THIN-FILM COATINGS
THIN-FILM COATINGS

AIRPLANE & POWER TURBINES
THIN-FILM COATINGS

PRODUCTION OF MODERN, BIO-COMPATIBLE MATERIALS FOR MANUFACTURING OF HEART VALVES, STENTS, IMPLANTS etc.
THIN-FILM COATINGS

PRODUCTION OF MEMBRANE CLOTHES
THIN-FILM COATINGS TECHNIQUE

UHV CHAMBER FOR DEPOSITION

NEW MATERIAL

SUBSTRATE

MATERIALS SOURCES

CATHODES

MAGNETRON SPUTTERING

THERMAL EVAPORATION

E-Beam EVAPORATION

ELECTRON BEAM

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THIN-FILM COATINGS INDUSTRY

Manufacture

• Large batch
• Repeatable process
• Large chambers
• Regularly vented
• Vacuum or HV
• Factory worker

Research

• One sample
• **Non-defined process**
• Small chambers
• Never vented!
• UHV
• **Expert scientist**
MAIN VIEW
SYNOPTICS VIEW
XMANAGER – Simple View

Loop Macro

Predefined Macros Library

Properties
XMANAGER – DRAG & DROP MACROS
COOPERATIONS
THANK YOU FOR YOUR ATTENTION
&
THANKS FOR YOUR HELP!