

# SPM – Reliability Management

Association of Companies, developing,  
producing and Using Electronic



# The Association of SPM



- SPM has 62 Associated companies
- Members of SPM comes from companies for Electronic –Development, -production and –test.
- Network, knowledge promotion and tecnologi projects.
- Erfa-Groups, "SPM Magazine", reports and supplementary training.
- Yearly Subscribtion: Round 1000€/Year/company and round 135€ / ERFA-group/year.



# Historie of SPM



Vedtægter  
for

*"Sammenslutningen for Pålideligheds- og Miljøteknik (SPM)"*

1. NAVN

Foreningens navn er "Sammenslutningen for Pålideligheds- og Miljøteknik (SPM)".

2. HJEMSTED

- Established in 1967 as *SPM* – *"Sammenslutningen for Pålideligheds- og Miljøteknik"*. Association of reliability and technique of environment
- "ElektronikCentralen" was established.
- Chairman of SPM where member of the executive committee of EC.
- SPM has send out 181 SPM-reports, and 46 numbers of the Magazine.



# SPM Magazine

- 3 times pr year.
- 8 pages.
- Technical articles.
- Paper edition for all.
- E-edition on the web.



# Questionnaire: Profile of interests

- The members choose project of year. In 2013: 20 proposals, 65 voted from 28 companies.

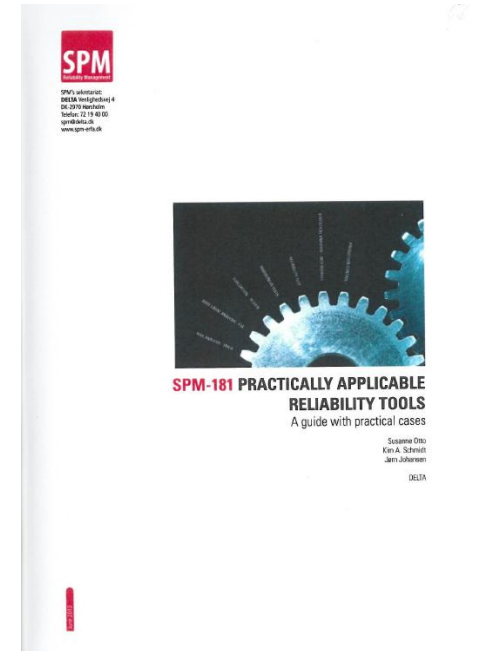
Ref	Titel	Point	Ja til e-mail gruppe	Placering
Q	Mission profiling	75	7	1
D	Kvalitet og kundetilfredshed	64	2	2
G	Goretex membraner	48	4	3
L	Top 5 fejlmekanismer	41	6	4
N	Langtidslagring af wafers, komponenter og moduler	41	4	4
K	EMC HALT for sikkerhedskritiske systemer	40	4	6
P	Komponentstørrelser	39	1	7
C	Forstyrrelse af elektronikens funktionalitet	35	3	8
O	Vask og rens af printplader – metoder og pålidelighed	35	4	8
M	Software pålidelighed	34	2	10
J	Beskyttelseslak til print	32	4	11
E	Fugtdannelse i effektelektronik	31	4	12
S	Pålidelighed i trådløse systemer	31	3	12
A	Test af høreapparaters batterier	22	3	14
U	Korrelation mellem emissionsmålinger for små emner	17	3	15
H	SRD og LTE	16	2	16
F	Levetider over 10 år i trådløse sensor systemer	11	1	17
R	Korrosionsmonitorering på skibe med selvforsynende trådløse sensorer	7	1	18
T	Pålidelighed af strømskinnesystemer	5	1	19
B	Pålidelighed af selvforsynende termostater med termisk energihøst	3	0	20



# Project of the year

## The Projects of the year:

- High Technical level.
- Big reports.



# www.spm-erfa.dk

- Some parts are open for all.
- Parts for members with login.
- Danish and English.



The screenshot displays the SPM website interface. At the top, there are search bars with a 'Søg' button and a language selector (DK/GB). Below the search bars is a navigation menu with links for 'FORSIDE', 'OM SPM', 'ERFA-GRUPPER', and 'SPM RAPPORTER'. The main content area is divided into several sections:

- Om SPM:** A section titled 'Medlemskort til fremtid' with a sub-header 'Den teknologiske udvikling følger med SPM'. It includes a list of services: Batterier, EMC, Komponenter/print, Korrosion/fugt, Pålidelighed, Safety, and Diverse. There is also a section for 'Fælles indsats' and 'Uddrag af de seneste SPM rapporter'.
- SPM rapporter:** A section titled 'SPM-projekter gennemføres primo' with a sub-header 'Forslagene/behovene formuleres'. It includes a list of dates from November 2013 to March 2009, with August 2010 highlighted. A sub-section 'Hovedindholdet i dette nummer er:' lists: 'Accelererede levetidstest vinder indpas', 'Kæmstrup A/S – en pålidelighedsprofil', and 'Short Range Devices – Standardiseringens nyt'. Below this is a thumbnail for the August 2010 report cover.

# Supplementary training

- Master Class in Reliability of electro-mechanical products in 2013, New class is started for 2014.





# Erfa-Groups

## SPM's 12 erfa-grupper

Oplysninger om hver enkelt Erfa-gruppe findes på SPM's hjemmeside [www.spm-erfa.dk](http://www.spm-erfa.dk)

- 5 PRODUKTSIKKERHED – GODKENDELSE
- 6 PÅLIDELIGHED
- 7 MIKROFORBINDELSESTEKNIK
- 8 PRODUKTIONSTEKNIK
- 9 EMC
- 10 MILJØPRØVNING OG KONSTRUKTION
- 11 PLANLÆGNING OG UDVIKLING AF PRODUKTIONSTEST
- 13 TERMISK RIGTIG APPARATKONSTRUKTION
- 16 FEJLANALYSE AF ELEKTRONIKKOMPONENTER
- 17 HALT /HASS
- 19 SENSORY EXCHANGE
- 20 DFMA

- SPM has managed Erfa-groups since 1978.
- 12 groups, ca. 200 members, 3 meetings/year.
- It is a real important network for the Members.



# Project day

- About 1 – 4 project days per. year.
- It could be a project day about the project of the year.
- Cost is round 135 € for members and 400€ for no members.
- They are quit popular – 40 participants per day.



# Conclusion

- SPM has existed for 47 years, and are still going strong

