



IPA

Institut für Prävention und Arbeitsmedizin
der Deutschen Gesetzlichen Unfallversicherung
Institut der Ruhr-Universität Bochum

Activities of IIW Commission VIII on Ergonomics in the past

Wolfgang Zschiesche

Joint Meeting of
IIW – Commission VIII
and the
Federation of the European Ergonomic Societies (FEES)

Budapest, January 30th 2014

RUHR
UNIVERSITÄT
BOCHUM

RUB

Working Group K „Ergonomics“

active for a long time

- providing papers
- introducing scientific literature
(possible as IIW doc's only in the past)
- long-term chairman: Roland Kadefors
- long-term member: István Visontay

Working Group G

„Emission and control of optical and thermal radiation in welding“

active for a long time

- providing papers
- introducing scientific literature
(possible as IIW doc's only in the past)
- long-term chairman: K. Kohmoto
- transfer into Comm. VIII: H. Yamaguchi

Introducing:

Papers

Authors

IIW-Doc-No

Examples on the major topics
(not concluding)

Physical workload and ergonomic design

Welding and ergonomics

Visontay

VIII-1499-89

Loading of arms in manual arc welding

Svabova et al

VIII-1368-87

Hand, arm and shoulder loads and physical characteristics of MIG welding guns

Wells et al

VIII-WG K102-95

Understanding the ergonomics of welding gun design

Tregaskiss et al

VIII-WG K103-95

Physical workload and ergonomic design

Recommendations for welding workplace design: physical workload aspects

Kadefors

VII-1672-92

Loading on the neck when welding with visors

Eklund et al

VIII-1674-93

Reference workplaces for manual welding

Kaderfors et al

VIII-1565-91

Workload and musculoskeletal problems: a comparison between welders and office clerks

Torner et al et al

VIII-1625-92

Physical workload and ergonomic design

The effect of arm support on supraspinatus muscle load during simulated assembly work and welding

Jarvholm et al

VIII-1627-92

Development of a systematic observation protocol of physical exposure of the back: a preliminary study

Tousignant et al

VIII-1958-02

Ergonomics in welding: experimental results in industrial cases

Colombo

VIII 2040-07

Physical and psychological factors at workplace (Interaction)

Epidemiological study to investigate potential interaction between physical and psychosocial factors of work that may increase the risk of symptoms of musculoskeletal disorder of the neck and upper limb

Devereux et al
VIII-1957-02

Use of cognitive psychology and muscle movement mechanics in welder's training.

Jastrzebski et al
VIII 1959-02

Shipyard welders

Medical wastage in shipyard welders: a forty-year historical cohort study

Wanders et al
VIII-1707-93

The welder as a strategic resource in shipbuilding

Boekholt
VIII 2056-07

Shipyard Welders – Status reports

Automation
Robots

Working during nightshifts with reduced staff

„The lonely welder“

Boekholt
Several Commission Documents

Systematic view on the whole welding process

Interventions

Automation

Future of the welding world

Comparing processes – a software model to tackle the job

Smith

VIII-1951-02

Econweld: Software to calculate acceptable positions and working times

Marconi

Health interventions for the metal working industry: which is the most cost-effective?

A study from a developing country

Salinas et al

VIII 1962-02

Systematic view on the whole welding process

Interventions

Automation

Future of the welding world

Welding wokplace after 2000: Status report January 1998

Boekholt

VIII 1838-98

Seeing to the work environment

Sveriges Verkstadsförening

VIII 1367-87

The operator's computer –

a decentralised tool for bilding an efficient decentralised organisation

Gustafsson and Nonas

Paper within WG K 1996

Systematic view on the whole welding process

Interventions

Automation

Future of the welding world

Modern work organisation demands decentralised technical solutions

Nonas and Gustafsson

Paper within WG K 1996

Guideline for health and safety management in welding activities

(based on EWF health and safety management system)

Costa

VIII 1997-05

Systematic view on the whole welding process

Interventions

Automation

Future of the welding world

Proposal for a draft ISO TR – Health and safety aspects of welding –
Health and safety check list for welding fabrication activities

Costa

VIII 2047-97

Optical and thermal radiation

Eyes

Protective measures

Research on hazardous optical radiation from welding arcs

Japanese Welding Engineering Society

VIII 1318-86

Light emission in thermal cutting

Andersen

VIII 1304-86 (from Comm. I)

Optical radiation hazards of laser welding processes - Part II: CO₂ laser

Rockwell and moss

VIII 1594-91

Optical and thermal radiation

Eyes

Protective measures

Measurement of blue-light effective radiance of welding arcs

Okuno

VIII 1424-88

Experiments of the blue light hazard

NN

VIII-1607-91

Optical and thermal radiation

Eyes

Protective measures

Case report: Photoretinitis: an underestimated occupational injury?

Magnavita

VIII 1966-02

Occupational risk factors, ultraviolet radiation, and ocular melanoma: a case-control study in France

Guenel et al

VIII 1947-02

Optical and thermal radiation

Eyes

Protective measures

Automatic scale setting welding filters

Sutter et al

VIII 1881-00

French vision enquiry

NN

VIII/WG A N 12

Extensive French study: Vision and Welding – Does welding cause ocular damage?

Introduced and furnished by Marini

Doc

Noise Hearing loss

Report on the questionnaire on noise in welding

Kennebeck

VIII-1519-90

Investigataion on welding arc sound (report I) – effect of welding method and welding condition of welding arc sound

Arata et al

VIII 1340-86

Any Questions?

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Thank you for listening

