

Veröffentlichungen der Strahlenschutzkommission  
Band 34

Herausgegeben vom Bundesministerium für Umwelt,  
Naturschutz und Reaktorsicherheit

# **Environmental UV-Radiation, Risk of Skin Cancer and Primary Prevention**

**Internationaler Kongreß  
und Klausurtagung der  
Strahlenschutzkommission  
6.-8. Mai 1996, Hamburg**

- **Zusammenfassung und  
Bewertung der Ergebnisse  
durch die Strahlenschutzkommission**
- **Conference Reports**



GUSTAV **FISCHER** Stuttgart Jena Lübeck Ulm

# Inhaltsverzeichnis

Seite

<b>A Zusammenfassung und Bewertung des internationalen Kongresses, gleichzeitig Klausurtagung 1996 der Strahlenschutzkommission, »Environmental UV-Radiation, Risk of Skin Cancer and Primary Prevention« am 6. bis 8. Mai 1996 in Hamburg</b>	
Stellungnahme der Strahlenschutzkommission, verabschiedet in der 139. Sitzung am 26.-28. Juni 1996 . . . . .	1
<b>A Summary and Evaluation of the International Congress, and Closed Meeting 1996 of the German Commission on Radiological Protection (SSK)</b>	
»Environmental UV-Radiation, Risk of Skin Cancer and Primary Prevention«, 6 to 8 May, 1996 in Hamburg	
Statement of the Commission on Radiological Protection, passed in the 139th Meeting of 26 to 28 June, 1996 . . . . .	11
<b>B Manuskripte der Vorträge . . . . .</b>	21
<b>Session 1: UV-Radiation at Ground Level . . . . .</b>	23
<i>J. M. Miller:</i> Summary of session 1: UV-radiation at ground level . . . . .	25
<i>H. Graßl:</i> Ozone depletion in the stratosphere and ozone increase in the troposphere: Trends and causes . . . . .	27
<i>G. Seckmeyer et al.:</i> Measurement and calculation of UV-radiation (models and prognoses) . . . . .	35
<i>J. M. Miller:</i> World wide UV-measurements . . . . .	59
<i>F. R. de Gruyl</i> Biological weighting of UV-radiation . . . . .	65
<i>H. Moseley:</i> Measuring personal exposure to solar UV . . . . .	77

<b>Session 2: Biological Effects of UV-Radiation</b>	87
<i>D. L. Mitchell:</i>	
Summary of session 2: Biological effects of UV-radiation	89
<i>L. H. F. Mullenders et. al.:</i>	
UV-induced repair and mutagenesis in mammalian cells	95
<i>E. Sage:</i>	
UV-induced mutation and transformation	107
<i>D. L. Mitchell et al.:</i>	
UV-induced DNA-damage and skin cancer	117
<i>F. P. Noonan et al.:</i>	
UV-induced immunosuppression	137
<i>E. G. Jung:</i>	
UV-induced skin alterations	151
<i>S. Zigman et al.:</i>	
UVA damage to and alpha tocopherol protection of the lens	161
<b>Session 3: Protection against UV-Radiation</b>	183
<i>A. F. McKinlay:</i>	
Summary of session 3: Protection against UV-radiation	185
<i>G. Boldeman et al.:</i>	
Public UV-protection in a northern country	189
<i>G. F. Mariutti:</i>	
Protection of occupationally exposed people from ultraviolet radiation	195
<i>H. P. Gies et al.:</i>	
Textiles and sun protection	213
<i>S. Schauder:</i>	
Sunscreens	235

---

<i>S. Bielfeldt:</i>	
Standardized methods for the determination of sun protection factor . . . . .	255
<i>D. H. Sliney:</i>	
Protection of the eye from solar ultraviolet radiation . . . . .	263
 <b>Session 4: Risk of Application of UV-Radiation . . . . .</b> 283	
<i>J. P. Césarini:</i>	
Summary of session 4: Risk of application of UV-radiation . . . . .	285
<i>J. P. Césarini:</i>	
Photodynamic mechanisms of damaging by UVA phototoxic and photoallergic reactions . . . . .	287
<i>A. Tanew:</i>	
UV-Therapy in dermatology . . . . .	297
<i>P. Autier:</i>	
Exposure to UV-radiation in sunbeds . . . . .	311
 <b>Session 5: Strategies of Public-Information . . . . .</b> 317	
<i>M. H. Repacholi:</i>	
Summary of session 5: Strategies of public information . . . . .	319
<i>N. A. Phillips et al.:</i>	
Skin cancer incidence: What has happened and what can we expect . . . . .	323
<i>T. Kjellström et al.:</i>	
The INTERSUN project of WHO . . . . .	333
<i>M. H. Repacholi:</i>	
ICNIRP programme in ultraviolet . . . . .	347
<i>B. Matthes:</i>	
Global solar UV-index . . . . .	355
<i>E. W. Breitbart et al.:</i>	
Worldwide experiences with the realization of educational campaigns . . . . .	361

<b>C Poster Abstracts . . . . .</b>	371
Session 1: UV-Radiation at Ground Level . . . . .	373
Session 2: Biological Effects of UV-Radiation . . . . .	385
Session 3: Protection against UV-Radiation . . . . .	403
Session 4: Risk of Application of UV-Radiation . . . . .	415
Session 5: Strategies of Public-Information . . . . .	423
 <b>D Teilnehmer . . . . .</b>	431

✓  
✓