

maximum concentration is reached just above the ventilation outlet of the cell rooms (25 m) and that the mercury vapor falling down rapidly results in elevated values in a restricted area at ground level.

REFERENCES

- Edner H., Fredriksson K., Sunesson A., Svanberg S., Uneus L. and Wendt W. (1987) Mobile remote sensing system for atmospheric monitoring. *Appl. Opt.* **26**, 4330-4338.
- Edner H., Faris G. W., Sunesson A. and Svanberg S. (1989) Atmospheric atomic mercury monitoring using differential absorption lidar techniques. *Appl. Opt.* **28**, 921-930.
- El-Rayis O. A., Halim Y. and Aboul-Dahab O. (1986) Total mercury in the coastal marine ecosystem west of Alexandria. *FAO Fish. Rep.* **325** (Suppl.), 58-73.
- Ferrara R., Maserti B. E., Edner H., Ragnarson P., Svanberg S. and Wallinder E. (1992) Atmospheric mercury determinations by Lidar and Point Monitors in environmental studies. *Toxicol. envir. Chem.* (in press).
- Frei R. W. and Hutzinger O. (eds) (1985) *Analytical Aspects of Mercury and Other Heavy Metals in the Environment*. Gordon and Breach, London, New York.
- Gonzales H. (1991) Mercury pollution caused by a chlor-alkali plant. *Wat. Air Soil Pollut.* **56**, 83-93.
- Hynninen V. and Lodenius M. (1986) Mercury pollution near an industrial source in southwest Finland. *Bull. Envir. Contam. Toxicol.* **36**, 294-298.
- Lindqvist O., Johansson K., Aastrup M., Andersson A., Bringmark L., Hovsenius G., Hakanson L., Iverfeldt A., Meili M. and Timm B. (1991) Mercury in the Swedish environment *Wat. Air Soil Pollut.* **55**.
- Lodenius M. and Herranen M. (1981) Influence of a chlor-alkali plant on the mercury contents of fungi. *Chemosphere* **10**, 313-318.
- Lodenius M. and Tulisalo E. (1984) Environmental mercury contamination around a chlor-alkali plant. *Bull. Envir. Contam. Toxicol.* **32**, 439-444.
- Maserti B. E. and Ferrara R. (1991) Mercury in plants, soil and atmosphere near a chlor-alkali complex. *Wat. Air Soil Pollut.* **56**, 15-20.
- Nriagu J. O. (1977) The production and uses of mercury. In *The Biogeochemistry of Mercury in the Environment* (edited by Nriagu J. O.). Elsevier/North Holland Biomedical Press, Amsterdam, New York, Oxford.
- Renzi A. (1977) A case of mercury abatement along the Tuscan coast. *J. Etud. Pollut. CIESM* **2**, 95-97.
- Wallin T. (1976) Deposition of airborne mercury from six Swedish chlor-alkali plants surveyed by moss analysis. *Envir. Pollut.* **10**, 102-114.