

# Progress report 2001

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## **Title**

Technology for reduction of nitrogen loss from solid manure systems

## **Dates for start and end of the research scholarship**

Start: 1 October 2001

End: 31 September 2004

## **Name and education**

### Name

Martin Nørregaard Hansen

### Education

Agriculturist

Biologist

## **Short description**

### Aim

Investigation and development of technology that reduces loss of nutrients from straw bedded housing systems.

### Content

- Influence of storage strategy on nitrogen conversion and emission products
- Influence of storage strategy on nitrogen loss and spreading evenness
- Influence of soil preparation technology on plant availability of nitrogen in field applied solid manure
- Development and documentation of equipment for measuring ammonia volatilisation from solid manure systems.

### Institution of registration

University of Aalborg. Institute of water, soil and environmental technology

### Supervisors

Senior lecturer Kaj Henriksen, University of Aalborg

Senior scientist Sven G. Sommer, Danish Institute of Agricultural Sciences.

### Status

- A brief plan for the project has been described
- There has been applied for external funding
- Contact has been established to University of Aalborg (AAU). AAU has started the admission procedure (still running).
- Participation in the first summer school of SOAR "Linking ecology and organic farming"

### Plans for 2002

- Project planning
- Literature study ending up in a national report
- Construction of storage facilities
- Development of equipment to improve measurement of ammonia volatilisation during storage of solid manure
- Development of system for improved measurement of nutrient loss and emission products during storage of solid manure
- Estimation of nutrient loss and emission products during different storage strategies of solid manure