

INTERNATIONAL SYMPOSIUM ON AVIAN INFLUENZA

Beltsville, Maryland, U.S.A.

April 22 - 24, 1981

Administration Building

Beltsville Agricultural

Research Center - West



## WELCOMING ADDRESS

It is my privilege to welcome you on behalf of the Organizing Committee to the 1<sup>st</sup> International Symposium on Avian Influenza.

Avian influenza, or "fowl plague", is a major disease of poultry. Most diseases in domestic poultry are controllable, but the plurality of antigenic, and thus immunologic types, of the influenza virus and the mode of introduction and spread into flocks makes this disease one of the most potentially economically disruptive maladies affecting the poultry industry.

At the 1979 United States Animal Health Association Meeting, the Committee on Transmissible Disease of Poultry recognized the need for international discussions on this problem and it was resolved to hold an international symposium on avian influenza in the Spring of 1981. It is of international importance to understand how regulatory agencies would respond to the antigenic makeup and differing levels of virulence of avian influenza isolates when they consider embargoes and other control measures. After several informal meetings, an international organizing committee was established and it assembled a number of scientists with expertise in this field, representatives from government regulatory agencies and poultry industry representatives to participate in this symposium.

This meeting is aimed at establishing understanding among participants from around the world on the definition of fowl plague, the determination and criteria of avian influenza, and the proper approach for control and prevention of this disease.

We therefore hope that this assembly will produce, or at least initiate, a solution to our complex problem.

*Raymond A. Benham*



## SPONSORING CONTRIBUTORS

United States Animal  
Health Association

Science and Education  
Administration - USDA

Animal and Plant Health  
Inspection Service - USDA

United States Agency  
for International Development

## Contributors

American Association of Avian Pathologists

American Veterinary Medical Association

Arbor Acres Farm, Inc.

Arkansas Turkey Federation

Babcock Poultry Farms, Inc.

California Turkey Industry Federation

Cobb Incorporated

Hybrid Turkeys Ltd.

Indiana State Poultry Association

Iowa Turkey Federation

Midwest Poultry Federation

Mile High Turkey Hatchery, Inc.

Minnesota Turkey Growers Association, Inc.

National Turkey Federation

Nicholas Turkey Breeding Farms, Inc.

Pacific Egg & Poultry Association

Pennsylvania Poultry Federation

South Carolina Turkey Federation

Southeastern Poultry & Egg Association

Texas Turkey Federation

Virginia Turkey Federation

Wisconsin Turkey Federation

Maine Biological Laboratories

North Carolina Turkey Federation

Poultry Health Laboratories



## OFFICERS OF SYMPOSIUM

Raymond A. Bankowski - General Chairman

Irvin L. Peterson  
Co-Chairman

Charles W. Beard  
Co-Chairman

## International Organizing Committee

Dr. William Allan  
Dr. Dennis J. Alexander  
Dr. Raymond A. Bankowski  
Dr. Charles W. Beard  
Dr. G. Bennejean  
Dr. Bernard C. Easterday  
Dr. Lee Grumbles  
Dr. Virginia Hinshaw

Dr. Daryl D. King  
Dr. John E. Lancaster  
Dr. Michael Lipkind  
Dr. Irvin L. Peterson  
Dr. Benjamin S. Pomeroy  
Dr. John C. Shook  
Dr. Andrew J. Turner



# International Symposium on Avian Influenza

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Tuesday - April 21, 1981  
 6:00-9:00 pm - Registration  
 Holiday Inn-Capital Beltway

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Wednesday - April 22  
 R. A. Bankowski, USA - Presiding

- 8:00 Late Registration
- 9:00 Opening Remarks and Announcements  
 (Purpose of Meeting and Selection of Panels).....R. A. Bankowski  
 U.S.A.
- 9:15 Welcome - Maryland Secretary of Agriculture.....W. A. Cawley  
 U.S.A.
- Director of Science and Education  
 Administration - USDA.....A. R. Bertrand  
 U.S.A.
- Administrator, Animal and Plant Health  
 Inspection Service - USDA.....H. Mussman  
 U.S.A.
- Overview of Influenza as a Virus and Disease.....E.C. Easterday  
 U.S.
- Influenza in Avian Species  
 Uncomplicated Infection with Virulent Strains.....W. H. Allan  
 United Kingdom
- Other Contributors
- 10:20 Coffee
- 10:40 Influenza in Avian Species  
 Complications Associated with Avian Influenza  
 Infections.....J. A. Newman  
 U.S.A.
- Other Contributors



11:00 Current World-wide Situation of Avian Influenza.....B. Pomeroy (Leader)  
U.S.A.

Australia.....A. Turner  
Belgium.....G. Meulmans  
Canada.....G. Lang  
France.....G. Bennejean  
Hong Kong.....K. F. Shortridge  
Israel.....M. Lipkind  
Italy.....M. Petek  
United Kingdom.....D. J. Alexander  
West Germany.....P. Bachman  
Other Contributors

12:30 Lunch

C. Beard - Presiding

1:30 Epidemiology of Avian Influenza and Sources of Infection

Domestic Species.....K. F. Shortridge  
Hong Kong  
Feral Species.....B. Tumova  
Czechoslovakia  
Pet Birds and Imports.....D. J. Alexander  
United Kingdom

Other Contributors

Economic Impact of Avian Influenza in Domestic Fowl

In the United States.....P. Poss  
U.S.A.

3:15 Coffee

3:30 Economic Impact of Avian Influenza in Domestic Fowl

On International Trade.....R. E. Anderson  
U.S.A.  
Comments.....A. J. Turner  
Australia

Other Contributors

5:00 Adjournment

6:00-7:30 Hors d'oeuvres and Refreshments - Holiday Inn- Capital Beltway

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Thursday - April 23

I. Peterson, USA - Presiding

- 8:30 Molecular Basis of Pathogenicity and Virulence  
of AI Viruses.....R. Rott  
West Germany
- Other Contributors
- Recent Developments in Genetic and Antigenic  
Analyses of AI Viruses.....V. Hinshaw  
U.S.A.
- Other Contributors
- 10:00 Coffee
- 10:20 Diagnostic Procedures  
In the United States.....J. E. Pearson  
U.S.A.
- Response.....W. H. Allan  
United Kingdom
- Other Contributors
- Production and Efficacy of Inactivated Vaccines  
for Control and Prevention of Avian Influenza.....C. Beard  
U.S.A.
- Commercial Vaccines.....R. Price  
U.S.A.
- Other Contributors
- 12:00 Lunch

B. Pomeroy, USA - Presiding

- 1:00 International Responsibility for Control of  
Avian Influenza.....J. Lancaster  
Canada
- Other Contributors
- 3:00 Coffee
- 3:20 Is International Regulation of Avian Influenza  
Feasible?.....G. Bennejean  
France



Response.....J. Atwell  
U.S.A.

Other Contributors

4:30 Adjournment

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Friday - April 24

8:30 Tour of Beltsville Agricultural Research Center for participants  
not involved in Panels



Friday - April 24

8:30 am

Executive Sessions of Pre-appointed Panels

Panel 1

Development of uniform identification and terminology of Avian Influenza Viruses

Objectives:

Should the term "Fowl Plague" be discarded?  
Develop criteria for highly pathogenic isolates causing outbreaks that may need government intervention  
Define research priorities in this area

Panel: B. C. Easterday - Chair

|            |                 |
|------------|-----------------|
| V. Hinshaw | D. Alexander    |
| R. Rott    | J. E. Pearson   |
| G. Lang    | R. A. Bankowski |
| P. Bachman | Others          |
| B. Tumova  |                 |

Panel 2

Development of uniform international understanding concerning import-export requirements

Objectives:

Government activities when an outbreak is defined as being caused by a highly pathogenic isolate  
Determine placement, size and duration of quarantine  
Determine effect on international trade embargoes  
Define research priorities in this area

Panel: J. Lancaster - Chair

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|--------------|--------------|
| W. Allan     | A. J. Turner |
| G. Bennejean | G. Meulmans  |
| L. Walts     | J. Atwell    |
| R. Nicholas  | F. Craig     |
| L. Campbell  | G. Watts     |
| Others       | R. McCapes   |
|              | I. Peterson  |
|              | M. Petek     |



Panel 3

Development of methods for prevention and control of outbreaks  
associated with low virulent strains

Objectives:

Develop recommendations to reduce impact of the disease  
caused by mild, low virulent strains  
Determine significance of AI viruses in migratory and  
other wild birds  
Define research priorities in this area

Panel: C. Beard - Chair

|             |                  |
|-------------|------------------|
| J. Newman   | P. Poss          |
| L. Grumbles | K. F. Shortridge |
| B. Pomeroy  | C. Nall          |
| R. Munson   | M. Lipkind       |
| D. King     | H. Ford          |
| R. Price    |                  |

12:00 Lunch

R. A. Bankowski - Presiding

1:00 Report of Panel 1.....B. Easterday  
Report of Panel 2.....J. Lancaster  
Report of Panel 3.....C. Beard  
Summarization of research priorities established  
by the three Panels.....D. King  
2:00 Discussion  
4:00 Adjournment



REPORT OF THE COMMITTEE ON  
TRANSMISSIBLE DISEASES OF POULTRY

Chairman: Raymond A. Bankowski, Davis, CA  
Co-Chairman: E. T. Mallinson  
Members: Bobby Baros, R. E. Baer, C. W. Beard, Francis G. Buzzell, E. T. Mallinson, Morris S. Cover, G. A. Erickson, H. E. Goldstein, L. C. Grumbles, Robert L. Hogue, D. D. King, Thomas L. Landers, Hiram N. Lasher, R. McCapes, R. Nicholas, H. E. Nadler, W. C. Patterson, J. E. Pearson, I. L. Petersen, B. S. Pomeroy, James B. Roberts, T. B. Ryan, John A. Smiley, H. W. Towers, and Y. C. Weston

The Committee met at 1:30 p.m., November 3, 1980

Seventeen members and sixteen guests attended.