

1952 – 2003 National Poultry
Breeders Roundtable Proceedings

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*National Poultry Breeders Roundtable
Proceedings 1952 – 2003*

52 Years of History and Science

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Getting Started With This CD-ROM

To search the articles, you will need the Adobe Acrobat® Reader™ software. The Acrobat Reader software can be downloaded at no charge from the [Adobe web site](#). Although the latest version of Acrobat available at the time of publication is 6.x, this CD works best with Acrobat version 5.x and the instructions on this CD refer to version 4.x. In step 2 below you will have the option to choose version 5.x instead of the latest version if you desire.

Please follow these steps to download and install the Acrobat Reader with Search software:

- 1) Visit the [download site](#) on the web.
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- 3) If downloading version 6.x, be sure that the box "Download the full version (recommended)..." is checked in "Step 2 of 2".
- 4) If downloading version 6.x, uncheck the "Also download free Photoshop Album 2.0 Starter Edition software" box and check the "Do not use Adobe Download Manager" box.
- 5) Click the "Download" button and save the download to the desktop.
- 6) Once the download is complete, double-click on the icon for the downloaded file.
- 7) Follow the instructions given by the installer.
- 8) Once the installation is finished, you may delete the icon on the desktop. The Acrobat Reader with Search software is now installed on your computer. You will now be able to search the articles for any word or phrase.

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Getting Started With Acrobat Reader

The Toolbar

In these instructions, we will often refer to icons in the Acrobat Reader toolbar. This is the toolbar.



The icons you will use most often are, from left to right on the toolbar:



The Find and Search icons: Find will look for a word or phrase within the current document, while Search will look across all the documents available. The small triangle next to the Search icon allows access to the other Search commands: Search Results, Next Highlight, and Previous Highlight.

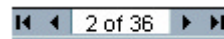


The Show/Hide Navigation Pane icon: this icon will open or close the the Navigation Pane to show the bookmarks. The bookmarks allow you to go directly to any given page in the document.

The Page icons: from left to right, these are the First Page, Previous Page, Next Page, and Last Page icons. These icons let you browse the current document.



The Page icons are repeated in the bottom left corner of the Acrobat Reader Window. The window between the Previous Page and Next Page icons shows the current page number. You may type a page number in this window, and you will be taken directly to that page in the current document.



The View icons: the Previous View and Next View icons will step through changes you have made to your view within Acrobat Reader, including magnification changes, page changes, and document changes.



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Getting Started With Navigation

Moving about the CD-ROM

The Navigation Menu at the left will move you between sections of the CD-ROM. The major subsections of the current section of the CD-ROM will also be available from the Navigation Menu.

You may use the Bookmarks to quickly find a specific page within the current section or to change sections. Open the Bookmarks window by choosing **Windows >Bookmarks** from the menu bar. Bookmarks marked with a **+** have lower level bookmarks that may be opened at this time by clicking on the **+**. The **+** will change to a **-** when the lower level bookmarks are displayed. Bookmarks displaying their lower level bookmarks may be collapsed, hiding the lower level bookmarks, by clicking on the **.** Choosing **Windows >Bookmarks** from the menu bar a second time will close the Bookmarks window.

Changing Sections

Once you have changed sections, you may change back by using the Navigation Menu, by using the Go To Previous View icon, or by choosing **Document >Go To Previous Document** from the menu bar. Using the Navigation Menu will take you to the first page of the section. Using the Go To Previous View icon will step back through changes in view you have made, including scrolling through a document. Choosing **Document > Go To Previous Document** from the menu bar will take you immediately back to where you were in the Guide before leaving to view the article. You may want to change your preferences to force articles to open in a separate window. To change this preference, choose **Edit >Preferences >General** from the menu bar. In the pop-up window that appears, choose **Options** from the list on the left. In the **Miscellaneous** section, uncheck the box labeled "Open Cross Document Links In Same Window." Clicking **OK** will update your preferences. This changes the behavior for all documents.

After Reading an Article

After reading an article, you will need to choose **Document >Go To Previous Document**, as the Bookmarks and the Navigation Menu will not be available. Alternatively, you may use the Go To Previous View icon as described previously. If you have changed your preferences as outlined above, you may simply close the article window to return to the Guide.

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The Search Query Window

Clicking on the Search icon, or choosing **Edit >Search >Query** from the menu bar will bring up a Search Query Window. The Search Query Window has a large window into which you will enter your search terms. After entering your terms, execute your search by clicking the Search button, or by using the Enter key. The Search Query Window will be replaced by a Search Results Window.

The Search Results Window

The Search Results Window gives a list of results in order of relevance, indicated by a small pie chart to the left of the title. More black in the chart indicates a better match. Highlight an article by clicking once on the title. Double clicking will open the article. Two buttons are available. View will open the article you have highlighted. Info will show you more information about the article you have highlighted.

Advanced Search Techniques

By changing your preferences, you may take advantages of some additional features. To edit your preferences, choose **Edit >Preferences**. Choose **Search** from the list on the left. Checking the box "Document Information" in the **Include in Query** section will allow you to search only in a specific field of information, for example, to search within a Title, or to search for a particular Author. In the **Results** section you may change the maximum number of hits displayed, and the order in which your results are displayed in the Search Results Window. The **View Dialog Options** section controls the behavior of the Search windows. After changing your preferences, click **OK** to save the changes.

Boolean Searches

The search engine will interpret multiple words as a single phrase. Entering **cheddar cheese** into the search engine will return only those documents containing the phrase "cheddar cheese". To find documents containing both "cheddar" and "cheese", but not necessarily "cheddar cheese", you would enter **cheddar AND cheese**. You may find documents containing either word by entering **cheddar OR cheese**. More information on Boolean searching is available in the Acrobat Guide by selecting **Help >Reader Help** from the menu bar. To find the section using the provided bookmarks, open **Contents**, then **Searching Indexes** or **Advanced Search Techniques**.

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- **Title Page; Introduction And Discussion.**
- **How Dominance And Gene Reaction Modify The Effectiveness Of Breeding Plans.**
Dr J L Lush
- **The Advantages And Disadvantages Of Progeny Testing.**
Dr G E Dickerson
- **Circumstances That Increase And Decrease The Effectiveness Of Selection.**
Dr Lerner

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- **Title Page; Roster Of Those In Attendance; Introduction And Discussion.**
- **Theoretical Considerations Of A Reciprocal Recurrent Selection And Reciprocal Selection Compared To Other Breeding Methods.**
Dr J Crow
- **Summary Of Recurrent Selection Results In Corn Breeding.**
Dr G F Sprague
- **The Effects Of Selection On The Phenotype And Combining Ability On Inbreeding.**
Dr A E Bell
- **Recurrent Selection As Compared To Hybridization And Closed Population Methods.**
Dr A E Bell

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1954

- **Title Page; Roster Of Those In Attendance; Program; Introduction And Discussion**
- **Statistical Ways Of Attacking Breeding Problems.**
Dr A E Bell
- **Discussion And Examples Of Statistical Significance**
- **What Is Heritability?**
Dr A Nordskog
- **Limitations And Practical Uses Of Heritability.**
Dr G W Dickerson
- **Sources And Magnitude Of Variation In 9-Week Body Weights.**
Dr G F Godfrey, B L Goodman And F Graybill
- **Analysis Of Ten Varieties Tested At Four Locations For Three Consecutive Years Of Hen Day Egg Production.**
J F Hill
- **Reciprocal Crossbreeding Test (Growth Aspects) – Plan Of Test.**
R G Jaap
- **Repeatability As It Applies To Precision Of Random Sample Test Results.**
S C King
- **Rate Of Increase In Pullet Egg Size In Three Strains Of White Leghorns.**
A J Wyatt

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1955

- **Title Page; Program; Roster Of Those In Attendance and Introduction**
- **Explanation Of Gene Action As Related To Physiological Characteristics.**
Dr. Jay Lush
- **The Theoretical And Practical Consideration Of Correlated Response In Breed Improvements.**
Dr D SW Falconer
- **The Exploration Of Ceilings And Plateaus On A Theoretical And Practical Basis.**
Dr. Alan Robertson
- **Evidence Of Continuing Genetic Progress In A Practical Breeding Program.**
Dr. Ed Godfrey
- **Some Consequences Of Multiple Objectives In Selection.**
Dr. G. E. Dickerson
- **A Practical And Theoretical Consideration Of Artificial Selection As Applied To Drosophila.**
Dr. Forbes Robertson
- **Discussion Of The Theoretical And Practical Implications Of Homeostasis.**
Dr. Jay Lush, D. C. Warren, Dr. R. N. Shoffner

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1956

- **Title Page; Program and Introduction**
- **Theoretical Consequences Of Breeding For The Heterozygote In Intra And Inter Breeding Populations.**
Dr. Jay L. Lush
- **Individual Blood Differences Group In Closed Populations.**
Dr. W E Briles.
- **Chromosomal Polymorphism And Co Adaptation.**
Dr Bruce Wallace
- **Superiority Of Birds Heterozygous For Blood Group Genes.**
Dr W E Briles
- **Questions - Answers.**
Moderator: Dr. E. F, Godfrey
- **The Role Of Deleterious Mutations In The Genetics Of Populations.**
Dr. Bruce Wallace
- **The Genetics Of Threshold Characters In Mice.**
Dr E. L. Green

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- **Title Page; Program; Roster Of Those In Attendance and Introduction**
- **The Experimental Analysis Of Genetic Correlations.**
Dr Forbes Robertson
- **Project Report On Recurrent And Reciprocal Recurrent Selection In Corn.**
Dr John H Lonquist
- **Results Of Selection Method Studies In Drosophila And Flour Beetles.**
Dr A E Bell
- **Critical Analysis Of Poultry Research At Experimental Stations And Government Research Stations In View Of The Rapidly Changing Poultry Industry And Commercial Breeding Operations.**
Dr T C Byerly
- **Cytological Studies Of The Fowl.**
Dr E H Newcomer
- **Radiation In Plant And Animal Breeding.**
Dr Kenneth Frey

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- **Title Page; Program; Roster Of Those In Attendance and Introduction**
- **Balance Theory Of Population Structure.**
Th. Dobzhansky
- **Nuclear Control Of Metabolism.**
Robert P. Wagner
- **Cytoplasmic Inheritance**
Adrian M. Srb
- **Observations On Drosophila Collecting In South America.**
Th. Dobzhansky
- **The Theory Of Selection Indexes.**
L. N. Hazel
- **The Application Of Selection Indexes To Eggs And Meat.**
G. E. Dickerson
- **Selection Index: Synthesis Of Discussion.**
Jay L. Lush

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- **Title Page; Program; Roster Of Those In Attendance; Introduction and Discussion**
- **Basic Genetic Effects Of Radiation On Animal Life.**
Dr John W Gowen
- **Genetic Effects Of Radiation On Populations.**
Dr Douglas Grahn
- **Blood Groups In Species Other Than Chickens, Especially In Man.**
Dr William C Boyd
- **Observations, Recollections And Projection.**
H. A Wallace
- **The Trilogy Of Genetics DNA, RNA And Protein.**
Dr Allen S. Fox
- **Making Use Of New Knowledge About Basic Principles.**
Dr Jay L Lush
- **Resumes Discussion Adjournment**

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- **Title Page; Program; Roster Of Those In Attendance; Introduction and Discussion**
- **Nucleo-Cytoplasmic Interrelations.**
Dr T M Sonneborn
- **The Particulate Gene.**
Dr C C Lindegren
- **The Nature Of Genetic Information.**
Dr G W Beadle
- **Planning And Administering An Industrial Poultry Breeding Program.**
John E Kimber
- **Lessons From Experiments With Control Populations Of Laboratory Organisms.**
Dr Earl Lasley
- **The Planning And Use Of Control Populations.**
Dr C R Henderson

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- **Title Page; Program; Table of Contents; Roster Of Those In Attendance and Introduction**
- **Paramutation At The R Locus In Maize.**
Dr. R. A. Brink
- **Selection Response In Quantitatively Inherited Characters.**
Dr. H. F. Robinson
- **Persistent Effects On Rr Action Of Changes In Chromosome Structure.**
Dr. R. A. Brink
- **Linkage In Relation To Evidence Concerning Level Of Dominance.**
Dr. R. E. Comstock
- **Genes, Janus And Poultry Breeding.**
Dr. F. B. Hutt
- **Genetic Variations In Nutritional Requirements In The Fowl.**
Dr. F. B. Hutt
- **Problems In Environment And Poultry Breeding.**
Dr. R. S. Gowe

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- **Title Page; Program; Table of Contents; Roster Of Those In Attendance and Introduction**
- **Pseudoallelism And Genetic Organization.**
Dr. M. M. Green
- **Theory And Instances Of Meiotic Drive.**
Dr. L. Sandler
- **Mutation And Gene Variation.**
Dr. M. M. Green
- **Segregation Distortion: A Case Of Meiotic Drive In Natural Populations Of Drosophila.**
Dr. L. Sandler
- **Improving One Character By Breeding For Another.**
Dr. J. L. Lush
- **A Critical Look At Selection Indexes.**
Dr. Dewey Harris
- **Synthesis And Discussion.**
Dr. J. L. Lush
- **Question And Answer Period.**

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- **Title Page; Program; Table of Contents; Roster Of Those In Attendance and Introduction**
- **The Nature Of Concealed Genotypic Variation.**
Dr. John M. Rendel
- **Recent Research On Qualitative Aspects Of Gene Action.**
Dr. H. Eldon Sutton
- **Development And Maintenance Of The Social Structure In Poultry Flocks.**
Dr. A. M. Guhl
- **Genetic Influences On Social Behavior In Chickens.**
Dr. James V. Craig
- **DNA-Mediated Genetic Transformation Of Human Cell Lines.**
Dr. Wacław Szybalski
- **Genetic Correlation Between Two Characters In Drosophila.**
Dr. John M. Rendel
- **Heredity And Quantitative Gene Action.**
Dr. H. Eldon Sutton

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- **Title Page; Program; Table of Contents; Roster Of Those In Attendance and Introduction**
- **The Linearity Of Inbreeding Decline.**
Dr. J. F. Crow
- **Discussion - Explanations For Existing Genetic Variance.**
Dr. J. F. Crow
- **On The Coding Of Genetic Information.**
Dr. L. A. Snyder
- **Genes, Primary Protein Structure And Operons.**
Dr. L. A. Snyder
- **Overdominance, Epistasis And Mass Selection In Corn.**
Dr. Gordon F. Sprague
- **Gene Action And Breeding Plans.**
Dr L. N. Hazel
- **Responses Expected From Alternative Methods Of Selection.**
Dr. L. N. Hazel

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- **Title Page; Program; Table of Contents and Roster Of Those In Attendance**
- **The Side Effects From Selection For Single Traits.**
Dr. A. W. Nordskog
- **The Fine Structure Of The Chromosome.**
Dr. Hans Ris
- **Avian Immunobiology And Genetic Polymorphism.**
Dr. Paul Jaffe
- **The Evolution Of Animal Breeding Practices - Commercial And Experimental.**
Dr. A. W. Nordskog
- **Cellular Regulatory Mechanisms.**
Dr. John C. Gerhart
- **Genetic Systems In The Cytoplasm.**
Dr. Hans Ris

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- **Title Page; Program; Table of Contents and Roster Of Those In Attendance**
- **Contributions To Fitness By Radiation - Induced Polygenic Mutations.**
Prof. John Crenshaw Jr.
- **Coexistence Of Competing Fly Specie.**
Prof. David Pimentel
- **Disruptive Selection And Speciation.**
Prof. John Crenshaw, Jr.
- **Avian Cytogenetics V: Potential In The Chicken And Turkey.**
Prof. Robert N. Shoffner
- **Cybernetics And Biology.**
Dr James C King
- **A Parasite-Host System And The Genetic Feedback Mechanism.**
Prof. David Pimentel
- **Redundancy In Genetic Information.**
Dr James C King

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- **Title Page; Program; Table of Contents and Roster Of Those In Attendance**
- **Effects Of Linkage On Selection In Heterotic Systems *And* Effects Of Linkage On Selection For An Intermediate.**
Dr. Richard C. Lewontin
- **Nature Of Selection Limits In Growth Of Mice.**
Dr R. C. Roberts
- **Selection In Reference To Biological Groups.**
Dr. Bruce Griffing
- **Viral Induction Of Neoplasms.**
Dr. Peter Vogt
- **Genetic Control Of Leukosis Resistance.**
Dr. Lyman B. Crittenden
- **Breeding For Resistance To Marek's Disease.**
Dr. R. K. Cole

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- **Title Page; Program; Table of Contents and Roster Of Those In Attendance**
- **Population Studies On Variability, Effects Of Irradiation And Progress From Selection In An Open-Pollinated Variety Of Corn.**
Dr. Chas. O. Gardner
- **The Nature Of Virulence In Plant Pathogens.**
Dr. Peter R. Day
- **Use Of A General Genetic Model For Fixed Effects To Evaluate Breeding Potential Of Populations, Strains Or Lines And To Predict Performance In Advanced Generations Of Hybrid Populations.**
Dr. Chas. O. Gardner
- **The Genetics Of The Host-Parasite Interaction.**
Dr. Peter R. Day
- **Genetic - Environmental Interactions In Laboratory And Farm Mammals.**
Dr. A. B. Chapman
- **Latest Developments In Progeny Testing Of Dairy Cattle (With Special Reference To Methods Used In Europe.**
Dr. Ivar Johansson
- **The Nature Of Genetic Information.**
Dr. George W. Beadle

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- **Components In Biological Engineering.**
Dr. Gordon E. Dickerson
- **Selection In Retrospect.**
Dr. L. N. Hazel
- **The Fundamental Theorem Of Natural Selection Reconsidered.**
Dr. James F. Crow
- **The Genotype-Nutrition Problem.**
Dr. John H. Quisenberry
- **Award Presentation To Dr J L Lush**
Arthur Heisdorf
- **Pushing Back The Frontiers Of Animal Breeding.**
Dr. Jay L. Lush
- **Twenty Years Experience With Reciprocal Recurrent Selection.**
Arthur Heisdorf
- **The Theoretical Course Of Directional Selection.**
Dr. Sewall Wright

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- **Title Page; Program; Table of Contents; Roster Of Those In Attendance and National Poultry Breeders Roundtable Committee For 1970**
- **The State Of Quantitative Genetics In Relation To The Real World.**
Dr. Alan Robertson
- **A Comparison Of The General Merits Of Purebred And Crossbred Dairy Cattle Resulting From Twenty Years (Four Generations) Of Crossbreeding.**
Dr. Robert W. Touchberry
- **Long-Term Selection For Egg Production In Two Strains Of Chickens.**
Dr. R. S. Gowe
- **Artificial Selection With Many Linked Loci.**
Dr Alan Robertson
- **The State Of Soviet Genetics.**
Dr. I. Michael Lerner
- **Lethal And Heterotic Effects Of Mutations Induced By Irradiating Mice In Successive Generations.**
Dr. Robert W Touchberry
- **Selection For Blister Rust Resistance In Western White Pine**
Dr. Walter A. Becker

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- **Title Page; Program; Table of Contents; Roster Of Those In Attendance and National Poultry Breeders Roundtable Committee For 1971**
- **Improvement Of Litter Size In Mice Beyond A Selective Limit.**
Dr. D S Falconer
- **Selection And Maternal Effects In Mice.**
Dr. J E Legates
- **Developing Improved Maize Hybrids With A Comprehensive Breeding System.**
Dr. S A Eberhart
- **Major Histocompatibility Loci.**
Dr. Fritz H Bach
- **Social Behavior Of Chickens And How It May Influence Productivity.**
Dr. J V Craig
- **Selective Improvement For Milk Yield In Dairy Cattle.**
Dr. J E Legates
- **Genetics Of Human Diseases Treated As Threshold Characters.**
Dr. D S. Falconer

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- **Frequency Dependent Selection.**
Dr C Clark Cockerham
- **More On Reciprocal Recurrent Selection.**
Dr. A Earl Bell
- **Patterns Of Response To 70 Generations Of Selection For Pupa Weight In Tribolium.**
Dr. Frank D Enfield
- **Direct And Indirect Response In Two-Trait Selection Experiments In Mice.**
Dr. Walter R Harvey
- **The View From The Bull's Eye.**
Dr Robert E Walton
- **Divergent Two-Trait Selection In Tribolium.**
Dr. A Earl Bell
- **Inbreeding With Linkage.**
Dr C Clark Cockerham

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- **Selection From Synthetic Populations.**
Dr W G Hill
- **Experimental Comparisons Of Individual Versus Family Selection Systems: Part One - Conventional Selection Approach; Part Two Single Generation Tests.**
Dr Stanley P Wilson
- **Inbreeding For The Genetic Analysis And Improvement Of Poultry Populations.**
Dr Hans Abplanalp
- **Response To Selection For Growth To Yearling Age In Beef Cattle.**
Dr Robert M Koch
- **Selection For Body Weight In Japanese Quail Under Different Nutritional Environments.**
Dr Henry L Marks
- **Selection For A Ratio Of Body Weight Gains In Mice.**
Dr Stanley P Wilson
- **Selection For Specific Resistance To Heat Stress In Tribolium.**
Dr Stanley P Wilson
- **Analysis Of Selection Experiments.**
Dr W G Hill

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- **Heterozygosity As Estimated From Genetic Markers And Its Relation To Performance Of Cattle.**
Dr. Franz Pirchner
- **Fifteen Generations Of Divergent Selection For Body Weight In White Rock Chickens.**
Dr. Paul B. Siegel
- **Selection For Increased Egg Production In The Fowl.**
Dr. Robert S. Gowe
- **Designing Selection Experiments For Specific Objectives.**
Dr. B. B. Bohren
- **Lymphomeloid Complex And Immunity In The Chicken.**
Dr. Bruce Glick
- **A Six-Generation Comparison Of Reciprocal. Recurrent And Within Line Selection In The Fowl.**
Dr B B Bohren
- **Genetic Correlations Between Pure-Line And Cross-Line Performance In Poultry.**
Dr. Franz Pirchner

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- **Title Page; Program; Table of Contents; Roster Of Those In Attendance; National Poultry Breeders Roundtable Committee For 1975 and Speakers For 1975 PBA National Breeders Roundtable**
- **Investigations Of The Nature Of The Gene Action Regarding Riboflavin Metabolism.**
Dr. Edward G. Buss
- **Selection At The Gene Product Level.**
Dr. Kenneth W Washburn
- **The Norwegian National Breeding Policy.**
Dr. Harald Skjervold
- **Some Limitations Of The Quantitative Genetic Approach To Poultry Improvement.**
Dr. A. W. Nordskog
- **Seventy-Five Years Of Poultry Genetics.**
Dr. F. B. Hutt
- **Breeding Experiments With Salmonids.**
Dr. Harald Skjervold
- **Genetic Basis Of Yolk Cholesterol In Chickens.**
Dr. Kenneth W. Washburn

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- **Title Page; Program and Speakers For 1976 PBA National Breeders Roundtable**
- **Optimum Genetic Improvement Of Layer Productivity; Paper #1 - Basic Parameters, Genotype – Environment Interactions And Alternative Selection Criteria.**
Dr. Alan Emsley
- **Optimum Genetic Improvement Of Layer Productivity; Paper #2 - Alternative Testing, Selection And Mating Schemes.**
Dr. Dewey L. Harris
- **Maternal Effects On Reproduction.**
O. W. Robison
- **Genetic Control Of Melanin Pigmentation In The Fowl.**
Dr. J. Robert Smyth
- **Immunogenetics And Disease Control In The Chicken.**
Dr. Howard A. Stone
- **Performance Responses To Selection For Growth Rate And Minimum Fat In A Pig Population.**
Dr. Howard T. Fredeen
- **Optimum Genetic Improvement Of Layer Productivity; Paper #3 - Other Considerations In Making Choices.**
Dr. Dewey L. Harris

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- **Potential For Use Of Inbreeding To Increase Rate Of Selection Response In Animals.**
Dr. Gordon E. Dickerson
- **Effects Of Alternate Generation Inbreeding On Selection Response In Japanese Quail.**
Dr. Don D. Kress
- **The Histocompatibility System In Turkeys.**
Dr. Frank L. Chermis
- **B Locus Immune Response Genes And Disease Resistance.**
Dr. Arne W. Nordskog
- **Evidence Concerning Genetic Improvement In Commercial Stocks Of Layers.**
Dr. Gordon E. Dickerson
- **The Egg And I For 50 Years.**
Dr. Don C. Warren
- **Multiple-Trait Selection In Egg Stocks; 1. Performance Of Six Selected Lines Derived From Three Base Populations; 2. Changes In Genetic Parameters Over Time In The Six Selected Strains.**
Dr. R. S. Gowe
- **Multiple-Trait Selection In Egg Stocks; 3. Retrospective Evaluation Involving Individual And Family Selection.**
Dr. A. J. McAllister

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- **Aggressive Behavior Of Chickens: Some Effects Of Social And Physical Environments.**
Dr. J. V. Craig
- **Progress In Breeding Forest Tress – The Problem Of Time**
Dr. Bruce Zobel
- **A Genetic Model For The Natural Regression Of Tumors?**
Dr. N. R. Gyles
- **The Relationship Of Lifetime Development Pattern To Productivity In Beef Cattle.**
Dr. C. J. Brown
- **Feed Conversion And Feeding Behavior In Laying Hens.**
Dr. J. F. Hurnik
- **Genetics And Poultry Husbandry.**
Dr. R. George Jaap
- **Genotypic And Phenotypic Relationships Of Abdominal Fat In Chickens.**
Dr. Walter A. Becker
- **Molecular Approaches To The Study Of Genetic Variation.**
Dr. Richard C. Lewontin
- **Sociobiology – A Caricature Of Selection Theory.**
Dr. Richard C. Lewontin

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- **Effects Of Infection With Lymphoid Leukosis Virus On Egg Production And Mortality In Selected And Control Strains.**
Dr. J. S. Gavora
- **Genetic Influence On The Fate Of RSV-Induced Tumors In Chickens.**
Dr. W. C. Collins
- **Genetic Techniques For Controlling Marek's Disease And For Improvement Of Multiple Economic Traits In High Performance Egg Production.**
Dr. J. S. Gavora
- **Biochemical Approaches To Genetic Variation.**
Dr. A. A. Grunder
- **Oyster Breeding – An Analysis Of Selection, Strain Crossing And Electrophoretic Variability.**
Dr. L. E. Haley
- **Major Gene Control Of Viability In Chickens.**
Dr. I. Y. Pevzner
- **Possible Commercial Method Of Freezing Chicken Semen**
Dr. T. J. Sexton
- **Genetic Selection When Egg Transmission of Lymphoid Leukosis Virus Occurs**
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- **Behavior – Genetic Analyses In Chicken And Quail.**
Dr. P. B. Siegel
- **The Role Of Feed And Water Intake In Explaining Genetic Variation In Growth.**
Dr. H. L. Marks
- **Genetic Variation In Efficiency Of Feed Utilization And Its Relationship To Carcass Fat.**
Dr. K. W. Washburn
- **Breeding For Disease Resistance – Simple, Complex Or Impossible.**
Dr. L. T. Patterson
- **Results From Industry Progeny Test Selection For Field Performance Of Strain-Cross Layers.**
Dr. G. E. Dickerson
- **Behavioral Correlates Of Infectious Heredity.**
Dr. L. Ehrman
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Dr. R. M. Shackelford

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- **Direct And Correlated Responses To Long-Term Selection In Tribolium.**
Dr. A. Earl Bell
- **Correlated Responses To Selection For Litter Size, Bodyweight And Antagonistic Indexes In Mice.**
Dr. E. J. Eisen
- **Metabolic Interference, Unusual Pedigrees And Species Differentiation: A New Mechanism Of Simple Inheritance Which Is Neither Dominant Or Recessive.**
Dr. William G. Johnson
- **The Genetics Of Coat Color In The Mouse.**
Dr. Walter C. Quevedo, Jr
- **A Study Of Competitive Ability And Biomass Efficiency, The Tribolium Model.**
Dr. A. Earl. Bell
- **Prospects For Genetic Improvement Of Total Litter Weight In Swine.**
Dr. E. J. Eisen
- **Genetics Of Growth And Reproduction In The Turkey.**
Dr. Karl E. Nestor

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- **A Review Of Exogenous And Endogenous Leukosis Virus Genes.**
Dr. Lyman B. Crittenden
- **Production Of B-F And B-G Reagents Using Recombinants Of The B-System.**
Dr. W.E. Briles
- **Update Of Poultry Cytogenetics.**
Dr. Robert N. Shoffner
- **Regulation Of Muscle Differentiation, The Role Of Gene Amplification In The Expression Of Chicken Actin Genes During Myogenesis.**
Dr. Robert J. Schwartz
- **Gene Chimeric Animals And Their Application.**
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- **Possibilities With Embryo Transfer And Splitting In Dairy Cattle Improvement.**
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- **Combinability, Heterosis And Reciprocal Effects For First And Second Year Performance In Six Long-Term Selected Leghorn Strains Crossed In Complete Diallele.**
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- **The Effects Of Changes In Economic Weights On The Efficiency Of Index Selection.**
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- **Lessons From Selection Studies In Poultry For Animal Breeders.**
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- **The Effects Of Drift On Quantitative Variation In Small Populations.**
Dr. C. Clark Cockerham
- **Growth Patterns And Feed Efficiency In Meat Animals.**
Dr. David R. Notter
- **The Green Muscle Disease In Chickens And Turkeys.**
Dr. Allan A. Grunder
- **Mechanisms Of Gene Action Affecting Pigmentation In The Fowl, A Somatic Cell Genetic Analysis.**
Dr. John A. Brumbaugh
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Dr. Daniel Gianola
- **The Effects Of Population Size Restriction On Selection Response.**
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- **Breeding For Immune Responsiveness And Disease Resistance In Poultry.**
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- **Useful And Non-Useful Measurements In The Genetic Selection For Improvement Of Eggshell Quality.**
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- **The Role Of Growth Hormone In The Domestic Fowl**
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- **New Genetic Approaches To Selection For Disease Resistance In The Pig.**
Dr. Max F. Rothschild
- **Relationships Among Growth, Carcass Composition And Feed Utilization In Broilers.**
Dr. G.W. Friars
- **The Avian Retrovirus As A Potential Vector For Gene Transfer.**
Dr. Ruth M. Shuman
- **Cloning And Gene Transfer In Mammals.**
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- **Best Linear Unbiased Prediction Of Performance And Breeding Value.**
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- **System Simulation For Designing Integrated Broiler Breeding Programs.**
Dr. Dewey L. Harris And Dr. M. Karim Akbar
- **Correlated Responses In Maternal Effects Caused By Single Trait Or Index Selection For Litter Size In Mice.**
Dr. Eugene J. Eisen
- **Avian Leukosis Viruses As Vectors For The Development Of Vaccines.**
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- **Genetic Divergence Among Inbred Strains Of Mice.**
Dr. William R. Atchley,
- **Use Of Ahemeral Light-Dark Cycles In Selecting For High Rate Of Lay In Chicken Hens.**
Dr. Harold Biellier
- **Inheritance And Importance Of Behavioral Traits In Livestock.**
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- **Selection For Reproduction In Swine.**
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Dr. Ann Dunnington & Dr. P.B. Siegel
- **Criteria Of Coherence For The Parameters Used To Construct A Selection Index.**
Dr. Jean-Louis Foulley
- **Maternal & Cytoplasmic Effects In Dairy Cattle.**
Dr. Ben McDaniel
- **Direct And Correlated Responses To Divergent Selection On Abdominal Fat.**
Dr. Avigdor Cahaner
- **Factors Influencing Variation In Egg Shell Strength.**
Dr. Ken Washburn
- **Control Of The Reproductive Process For Optimum Performance In Dairy Herds: A Case Study For Systems Analysis.**
Dr. Tony Oltenacu
- **Genetic Engineering In Fish.**
Dr. Colin E. Purdon
- **Insertion Of Retroviruses Into The Chicken Germ Line: Potential For Poultry Improvement.**
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