

Proceedings of the 23rd

Forages at KCA

Presented by:

University of Kentucky

Kentucky Cattlemen's Association

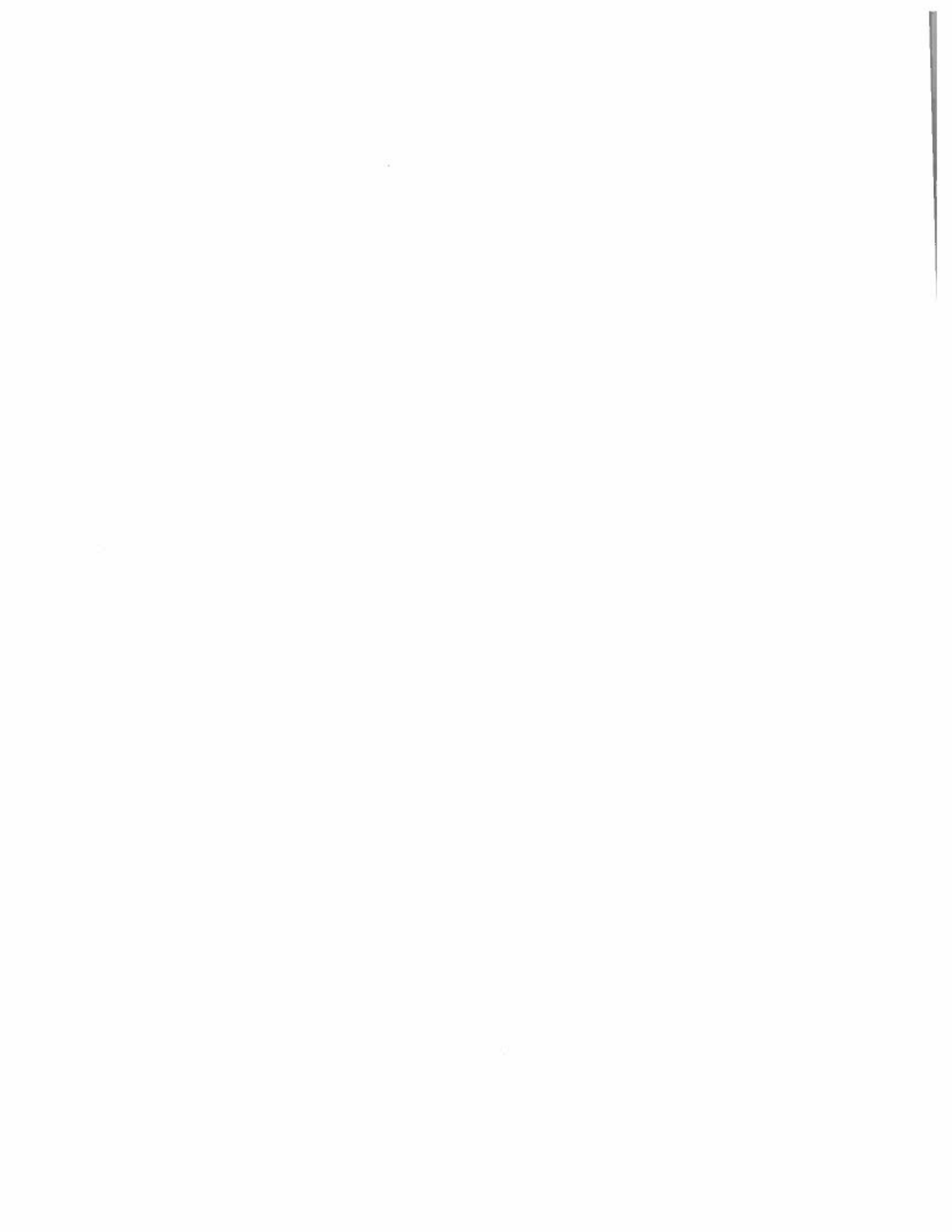
Kentucky Forage and Grassland Council

Friday, January 12, 2018

Lexington, KY

C. Teutsch and C. Forsythe, editors





Foreword

This marks the twenty-third consecutive year we have had a Forage Symposium at the Kentucky Cattlemen's Convention. We challenge you to consider the content of the proceedings and the discussions of the day in light of your overall forage program. It is our hope you will go away with at least one idea or practice that you can implement to improve the profitability of your operation.

On behalf of the program committee, I want to thank Mr. Dave Maples and his staff at KCS for their support, assistance and encouragement. In addition, I want to thank the Kentucky Forage and Grassland Council for their continued support of Forages in Kentucky. I would like to express sincere gratitude to Dr. Mark Coyne and Mr. John Bell for taking time out of their busy schedules to spend the afternoon with us and share their knowledge and insights.

A very special thanks is extended to Dr. Ray Smith for his assistance in planning this program and to Christi Forsythe for assembling and printing these proceedings.

I would encourage you to stay in up-to-date with the latest forage research in Kentucky by subscribing to our online newsletter, Forage News, by visiting www.uky.edu/ag/forage. In addition, you will find a wealth of publications and other resources to help you better manage your forage resources.

Sincerely,

A handwritten signature in blue ink that reads "Chris D. Teutsch". The signature is written in a cursive style with a long horizontal line extending from the end of the name.

Chris D. Teutsch, Program Chair



TABLE OF CONTENTS

Foreword

Conference Agenda

Speaker Bios

2017 Variety Trial Summary	1
Dr. Ray Smith	
The Soil is Alive!	25
Dr. Mark Coyne	
Building Strong Nutrient Cycles in Kentucky's Pastures	31
Dr. Chris Teutsch	
Putting the Pieces Together: Managing the Soil, Plant, and Animal on My Farm	39
John Bell	
Update on the Grain and Forage Center of Excellence	51

AGENDA

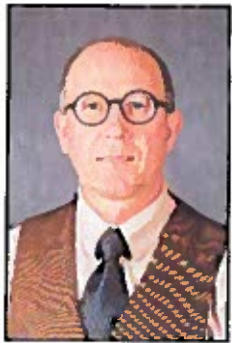
Forages at KCA-2018

- 1:55 pm Welcome - Dr. Ray Smith, University of Kentucky
- 2:00 pm Variety Testing Update - Dr. Ray Smith, University of Kentucky
- 2:15 pm The Soil is Alive! - Dr. Mark Coyne, University of Kentucky
- 3:00 pm Building Strong Nutrient Cycle in Kentucky's Pastures –
Dr. Chris Teutsch, University of Kentucky
- 3:45 pm Putting the Pieces Together: Managing the Soil, Plant, and
Animal on My Farm - John Bell, Elmwood Stock Farm,
Georgetown, KY
- 4:30 pm Wrap-up and Adjourn

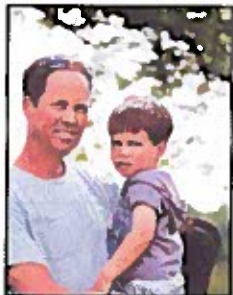
Our Speakers...



Dr. Chris Teutsch grew up on a small crop and livestock farm in northeastern Ohio. After high school he spent four years in the United States Navy. Following his military service, he participated in an exchange program with Germany. During his year in Germany, he attended agricultural school and lived and worked on a German dairy farm. After returning to the United States, he completed a bachelor's and master's degree at The Ohio State University specializing in forage management. He then moved onto the University of Kentucky where completed a doctorate of philosophy in forage management and physiology. In 2000, Dr. Teutsch was hired by Virginia Tech's Southern Piedmont Agricultural Research and Extension Center where he developed a nationally recognized research and extension program. In January 2017, Dr. Teutsch joined the extension faculty at the University of Kentucky as the new forage extension specialist located at the Research and Education Center at Princeton. Dr. Teutsch has received numerous awards for his work with the forage and livestock industry in Virginia and nationwide.



Dr. Mark Coyne, originally from Kalamazoo MI, earned his B.S. in Agronomy and International Agriculture from Iowa State University in 1982, his M.S. in Soil and Environmental Sciences from the University of California, Riverside in 1984, and his PhD in Crop and Soil Sciences from Michigan State University in 1989. After a brief post doc at the University of California, Berkeley, he began research and teaching at the University of Kentucky in January 1991. Over the past 27 years he has taught over 18 different graduate and undergraduate courses, although he focuses on soil microbiology and ecology. Coyne has directed the graduate studies of 12 MS and 10 PhD students from 19 different countries in addition to undergraduate advising in the Plant and Soil Sciences and Natural Resource and Environmental Sciences programs. Coyne's research focus is on nitrogen and carbon cycling, the fate and transport of fecal pathogens, waste management, and (more recently) soil health and how to measure it. He is the author or co-author of 78 peer-reviewed manuscripts and four textbooks and currently serves as the Director of Graduate Studies for the Integrated Plant and Soil Sciences Graduate Program.



John Bell farms with his family at Elmwood Stock Farm outside of Georgetown KY. The farm produces organic vegetables, grass-fed beef and lamb, pastured pork and poultry, along with forage and grain for their livestock on 550 acres. Markets include a CSA farm-share program, farmer's markets, local restaurants, and retail store accounts.

<http://elmwoodstockfarm.com/>.

