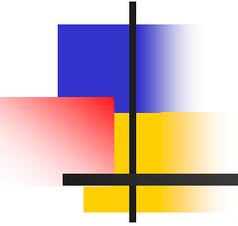
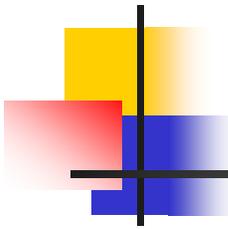


Summary of BVDV 2006 Symposium : Research Priorities and Funding Sources





BVDV Control

- **Control strategies and programs**
- **Diagnosis and surveillance**
- **BVDV vaccines**
- **BVDV in other species (besides cattle)**
- **Economics of BVDV**



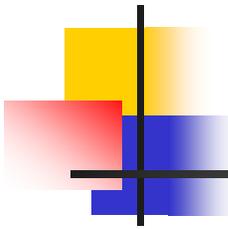
Issues for Discussion: (A) Basis for Control/Eradication

- **Demonstration to stakeholders for value of control measures, *likely not now unanimous***
 - **Proof of economic losses to BVDV**
 - **Beef breeding herd, stocker operators and feedlots**
 - **Dairy operations**
- **Role of current North American cattle marketing methods to BVDV control**

Issues for Discussion: (B)

Diagnostic tests

- Do we now have diagnostic tests available to proceed with control?



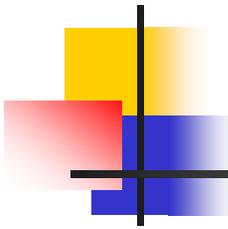
Issues for Discussion: (B)

- Do we now have diagnostic tests available to proceed with control?
- Emerging tests
 - Antigen detection
 - PCR tests for viral genome
 - Others???
- Pooling and/or individual animal testing



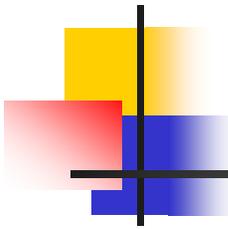
Issues for Discussion: (C) Vaccines and Immunity

- **Vaccines**
 - **Do current vaccines work!**
 - **Or is it lack of proper use?**



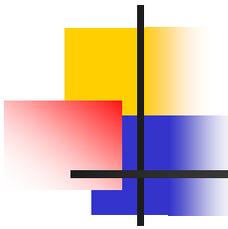
Issues for Discussion: (C)

- **Innovative Vaccines**
 - Recombinant
 - Subunit
 - Plasmid based
 - To be developed
- **Efficacy : Move beyond acute challenge**
 - Demonstrate fetal protection
 - Use PI cattle as challenge
 - Diversity of BVDV strains in cattle



Issues for Discussion: (C)

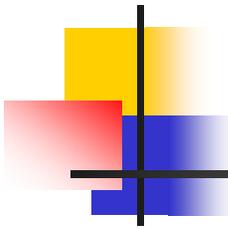
- **Overcoming maternal immunity as blockage to protective immunity**
- **Adjuvants to enhance immunity for vaccines**
- **Environmental/nutrition effects on immunity and vaccine response**



Issues for Discussion: (D)

Non Bovine Hosts

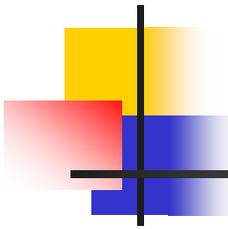
- **Role of wildlife species in control and eradication programs**
 - **Possibility vs Probability**



Issues for Discussion: (E)

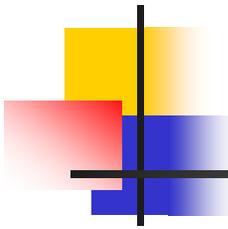
Can we make it pay?

- **Economics of control**
 - **When is in depth testing recommended?**
- **Cost benefit to testing for control**
- **Can certified free herds be maintained and at what level of testing?**



Issues for Discussion: (F) Opportunities/Threats

- **Awareness of industry to issues**
- **Lack of animal identification programs**
- **Lack of role of BVDV as a public health concern to human health**
- **Success of BVDV control could be model to other infectious disease control programs**



Who pays for research? And For What Projects?

- **USDA grants**
- **USDA ARS**
- **NIH**
 - **Animal model**
 - **Training grants**
 - **Facility grants**
- **State governments : AES**
- **Industry groups**
- **Commercial firms**
- **Wildlife agencies**
- **Private foundations**