

**Joint Meeting of the 41st North American Alfalfa Improvement  
Conference  
&  
20th Trifolium Conference**

**Embassy Suites Dallas  
Near the Dallas/Fort Worth International Airport, South  
June 1-4, 2008**

**Sunday June 1, 2008**

- 2:00-5:00 PM        Registration, Ballroom Salon D and E
- 4:30-7:00 PM        NAAIC Executive Committee Meeting, Dallas Boardroom
- 5:00-9:00 PM        Reception, Ballroom Salon D and E

**Monday Morning: June 2, 2008**

6:30-8:00 AM        Breakfast Embassy Suites - Atrium

**Trifolium Conference Session**, Ballroom Salon D and E  
Moderator: Yousef Papadopolous

- 8:00-8:45 AM        **Research investment in "other" forage legumes**  
P.R. Beuselinck, A.A. Boe, E.C. Brummer, N.C. Ehlke, J.A.  
Mosjidis, Y.A. Papadopolous, H. Riday, G.R. Smith, and M.J.  
Williams
- 8:45-9:05 AM        **Response to selection under controlled environment versus  
natural selection in diverse regions across Canada**  
Yousef A. Papadopoulos, R. Michaud, A. Bertrand, B. Coulman,  
S. N. Acharya, S. Bittman, H. Riday, D. Viands, A. Boe, K. McRae  
and Y. Castonguay
- 9:05-9:25 AM        **Improvement of reseeding in crimson clover**  
G. R. Smith, G. W. Evers and I. J. Pemberton
- 9:25-9:45 AM        **Genetic variation within and among collections of falcata  
alfalfas**  
Ivan W. Mott, Michael D. Peel and Arvid Boe
- 9:45-10:05 AM       **Multiple hydroxycinnamoyl transferases from red clover differ  
in sequence, expression pattern, and enzymatic activity**  
Michael Sullivan

- 10:05-10:25 AM      BREAK
- 10:25-10:45AM      **Response of kura clover to moisture deficits**  
Craig C. Sheaffer and Pierre Seguin
- 10:45-11:05 AM      **Reproductive ecology of native legumes in the Northern Great Plains**  
Arvid Boe and Paul J. Johnson
- 11:05-11:25 AM      **A cornucopia of diversity: U.S. germplasm accessions worthy of future research**  
Stephanie L. Greene
- 11:30 AM-1:00 PM    **LUNCH** (included in registration)

**Monday Afternoon: June 2, 2008**

**Symposium: Legumes and the Nitrogen Advantage**, Ballroom Salon D and E  
Moderator: Craig Sheaffer

- 1:00-1:40 PM          **Are clovers ready for the nitrogen fertilizer crisis?**  
Gerald W. Evers
- 1:40-2:20 PM          **Earth, air, fire and water: Extending the queen's realm**  
Michael P. Russelle
- 2:20-2:40 PM          Discussion and Q&A
- 2:45-5:00 PM          **Poster Session** & BREAK, Ballroom Salon C
- 5:00-5:45 PM          **Business Meetings**, Ballroom Salon D and E (separate and joint)
- 6:00 PM                  **Dinner** (on your own)

**Posters:** 42 tall x 36 wide, two per side of board

1.      **Increasing alfalfa seed size by recurrent selection and by transfer from *Medicago arborea***  
Edwin T. Bingham
2.      **Genetic relationships of alfalfa cultivars based on simple sequence repeat (SSR) molecular markers**  
Gary R. Bauchan, ZhangLian Xia, and Peter VanBerkum
3.      **Reducing Potato Leafhopper (PLH) impacts on alfalfa through PLH-resistant cultivars intercropped with perennial forage grass**

Dr. J. Hansen, Dr. D. Viands, J. K. Waldron, Dr. M. Hall, Dr. J. Losey, Dr. D. Johnson, J. Hanchar

4. **Revealing genetic relationships and the scope of diversity among unimproved diploid alfalfa germplasm using SSR markers**  
Muhammet Sakiroglu, Jeff Doyle, and E. Charles Brummer
5. **Falcata alfalfa for intermountain Western U.S. grazing lands**  
Michael D. Peel, Ivan W. Mott
6. **On farm evaluation of an alfalfa cultivar with lower bloat potential**  
D. Basigalup, A. Odorizzi, V. Arolfo, M. Correa Luna and J. Dupuy
7. **Effect of glyphosate on foliar diseases in roundup ready alfalfa**  
Dawn Foster-Hartnett and Deborah A. Samac
8. **Alfalfa Bioenergy: Energy products and breeding strategies**  
JoAnn F. S. Lamb, Hans-Joachim G. Jung, and Craig C. Sheaffer
9. **Nematodes & drought impact on clover production in Florida**  
Ken Quesenberry, Yoana Newman, David Wofford, and Ananta Acharya
10. **QTL for water stress resistance and water use efficiency in alfalfa**  
Julier B., Bernard K., Abdelguerfi-Laouar M., Semiani Y., Sfarni O., S. Udupa, F. Gasmi, Huguet T.
11. **Leaf mark effects on production and persistence of red clover**  
Robin Bortnem and Arvid Boe
12. **QTL for flowering date in three mapping populations of *Medicago truncatula***  
J.B. Pierre, T. Huguet, P. Barre, Huyghe C. Julier B.
13. **Effect of photoperiod of flowering date and aerial morphogenesis of eight *Medicago truncatula* lines**  
Julier B., J.B. Pierre, Huyghe C.
14. **Weak but significant diversity among alfalfa populations but only limited comparability for resulting structure between morphological and SSR markers**  
Doris Herrmann, Sandrine Flajoulot, Joëlle Ronfort, Bernadette Julier
15. **Protein fractions in polyphenol-containing forage legumes: Freeze-drying vs. conservation as hay or silage**  
John H. Grabber

16. **Acetone enhances the analysis of total condensed tannins in forage legumes by the butanol-HCl assay**  
John H. Grabber
17. **Genome-wide Identification of microsatellites in white clover (*Trifolium repens* L.) using FIASCO and SSRMiner**  
Yan Zhang, Ji He, Patrick Zhao, Joe H. Bouton, Maria J. Monteros
18. **QTL mapping of aluminum tolerance in tetraploid alfalfa**  
Dong-Man Khu, Joseph H. Bouton, Rafael Reyno, E. Charlie Brummer, Maria J. Monteros
19. **Restricting gametophytic self-incompatibility alleles in red clover (*Trifolium pratense*) to increase hybridity**  
Heathcliffe Riday
20. **Lignin and fiber digestibility in caffeic acid 3-O-methyltransferase and caffeoyl CoA 3-O-methyltransferase downregulated alfalfa**  
Heathcliffe Riday, Dave Whalen, Joe Bouton, Dave Mertens, Hans Jung, Fang Chen, Mark McCaslin, and Richard Dixon
21. **Sativa by falcata alfalfa hybrid variety trials**  
Heathcliffe Riday, Steve Wagner, Don Viands, JoAnn Lamb, Dwain Meyer, Mark Smith, E. Charles Brummer, and Arvid Boe
22. **Evaluation of forage quality traits in alfalfa**  
Yuanhong Han, Joseph H. Bouton, Ian M. Ray and Maria J. Monteros
23. **Screening alfalfa (*Medicago sativa*) cultivars for salt tolerance**  
John Derek Scasta, Calvin Trostle, Hong Zhang, Dick Auld, Cary Green
24. **Comparative gene expression profiles between heterotic and non-heterotic hybrids of tetraploid *Medicago sativa***  
Xuehui Li, Yanling Wei, Dan Nettleton, and E. Charles Brummer
25. ***Ascophyllum nodosum* (L.) Le Jolis extract improves root nodulation in alfalfa**  
Wajahatullah Khan, Ravishankar Palanisamy, Simon D. Hankins, Alan T. Critchley, Donald L. Smith, Yousef A. Papadopoulos, Balakrishnan Prithiviraj.
26. **Expression of eastern cottonwood (*Populus deltoides*) eucaryotic translation initiation factor-5A3 in alfalfa (*Medicago sativa* L.)**  
Jay M. Sandman, Jaime J. Jakes, David W. Johnson, Jonathan M. Reich, Tzann-Wei Wang, Chris Liu, and John Thompson

**Tuesday Morning June 3rd, 2008**

**Noble Foundation Tour**

- 6:30-8:00 AM Breakfast Embassy suites - Atrium
- 8:00-8:15 AM Board bus, (front entrance of Hotel)
- 8:15-10:15 AM Travel to the Samuel Roberts Noble Foundation
- 10:30 AM -12:15 PM Tour of Facilities and Field Research
- 12:30-1:45 PM Awards Luncheon FID Atrium

**Tuesday Afternoon June 3, 2008**

**Noble Foundation Medicago and Alfalfa Research Session**, Kruse Auditorium

Moderator: Joe Bouton

- 2:00-2:30 PM ***Medicago* genomics and functional genomics**  
Mike Udvardi
- 2:30-3:00 PM **Translational genomics for engineered forage quality traits in alfalfa**  
Rick Dixon
- 3:00-3:30 PM Break
- 3:30-4:00 PM **Alfalfa and clover breeding and genomics**  
Maria Monteros
- 4:00-4:30 PM **Alfalfa cotton root rot research**  
Carolyn Young
- 4:30-5:00 PM **Transposon tagged *Medicago truncatula* lines**  
Kiran Mysore
- 5:00-5:15 PM Discussion
- 5:30-7:00 PM Social and BBQ Dinner (catered) atrium
- 7:00pm Travel back to Dallas
- 9:00pm Arrive at Embassy Suites

**Wednesday Morning: June 4, 2008**

6:30-8:00 AM Breakfast Atrium @ Embassy suites

**NAAIC Session**, Ballroom Salon D and E

Moderator: David Johnson

- 8:00-8:45 AM **Health and future prospects of the alfalfa and forage seed Industries**  
Jon Reich, Dave Miller
- 8:45-9:05 AM **Breeding lucerne for Australian environment through private public partnership**  
Dr. Shoba Venkatanagappa
- 9:05-9:25 AM ***In vivo* digestibility of lignin downregulated alfalfa**  
David Mertens, Heathcliffe Riday, Pete Reisen, and Mark McCaslin
- 9:25-9:45 AM **A new concept in fall harvesting of alfalfa in the north**  
Dwain W. Meyer and Robert D. Nudell
- 9:45-10:05 AM **Analysis of dehydrin sequences from alfalfa populations recurrently selected for freezing tolerance**  
Y. Castonguay, W. Rémus-Borel, J. Cloutier, S. Laberge, A. Bertrand, and R. Michaud
- 10:05-10:25 AM BREAK
- 10:25-10:45 AM **Affect of crop residue on colonization and survival of *Phoma sclerotioides*, the causal agent of brown root rot of alfalfa**  
Deborah A. Samac, Carly Matsumoto, Jennifer E. Larsen, Lorilie Atkinson, Charla R. Hollingsworth, and Christopher D. Motteberg
- 10:45-11:05 AM **Selecting soils for alfalfa on the coastal plain of the southern USA**  
Vincent Haby and Allen Leonard
- 11:05-11:25 AM **A resistance gene from *Medicago truncatula* confers broad spectrum resistance to anthracnose disease in alfalfa**  
Shengming Yang, Muqiang Gao, Chenwu Xu, Jared Criswell, Shweta Deshpande, Shaoping Lin, Bruce A. Roe, and Hongyan Zhu
- 11:45 AM **LUNCH** (included in registration)