

Greenworks 2010 Annual Meeting

Leonard Perry, UVM Extension

- UVM/Plant Science update
- Flower Display Garden Waterfront Park, Burlington
- Hardiness Research



view east 2008 from Davis Center
Agr. Engineering building

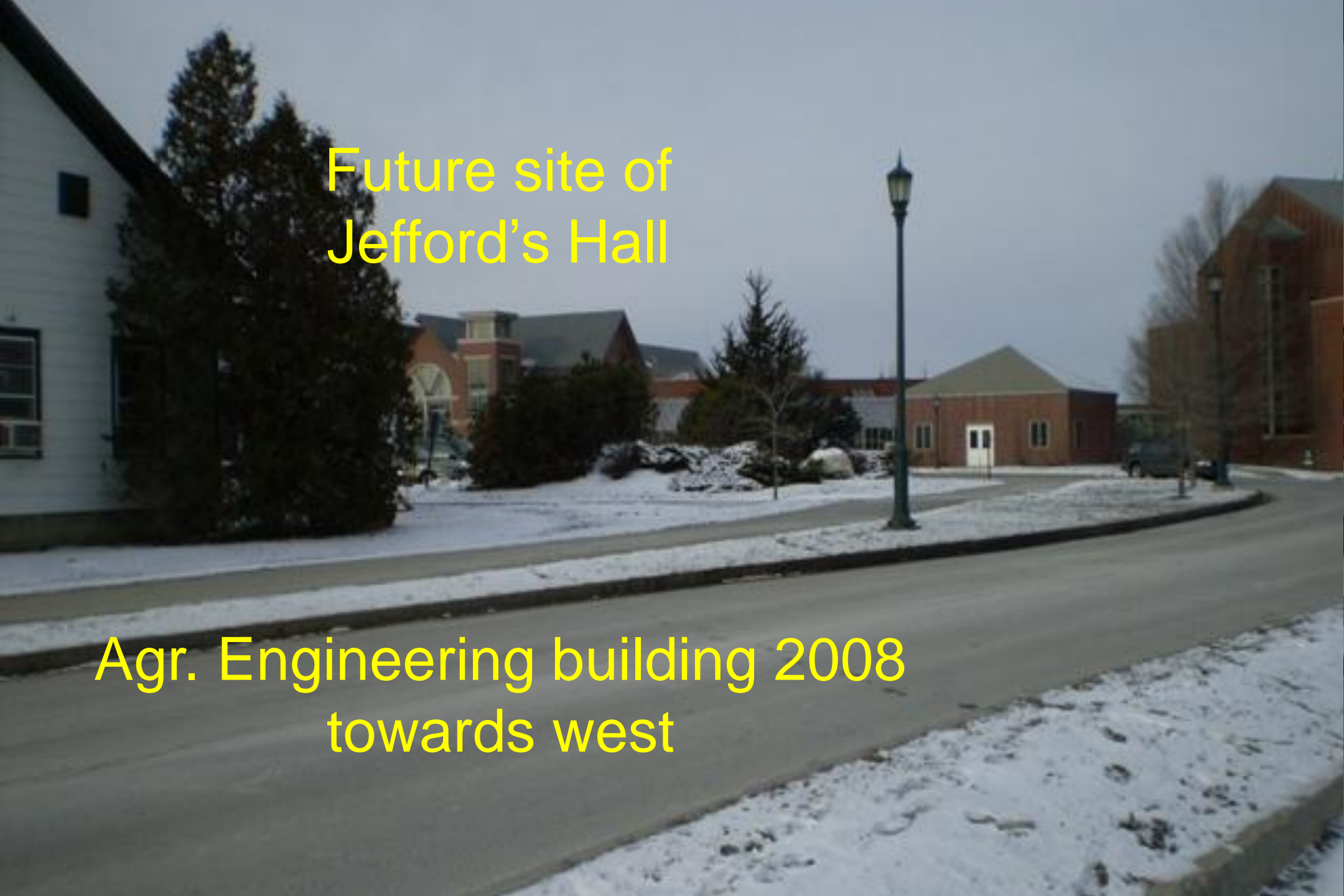


James Jeffords Hall, Jan. 2009 future Plant Sciences building



James Jeffords Hall, Jan. 2010





Future site of
Jefford's Hall

Agr. Engineering building 2008
towards west



Jefford's Hall, May 2010 opening
Plant sciences, plant biology



All-America Selections Flower Display Garden

Burlington Waterfront Park

**A cooperative effort of
Burlington Parks and Recreation
Dr. Leonard Perry, University of Vermont**



**All-America Selections 2008
Exemplary Education Award**



Front bed 2009 July



Front bed 2008



Front bed 2007



At planting, June 2009



July 2009



Boathouse beds, August 2009



Bed labels



Celosia 'Fresh Look Red' (2004), Euphorbia 'Diamond Frost'



Celosia 'Fresh Look Gold' (2007), Salvia 'Evolution' (2006)



Ornamental Pepper 'Black Pearl' (2006)

Vinca 'First Kiss Blueberry' (2005)



Frosted Curls sedge, Sutera (Bacopa)



“leather and lace”

Leather Leaf sedge, Emerald Lace sweet potato



“canna lantana”



**2010 AAS
winner**

Photo courtesy AAS

Pow Wow Wild Berry coneflower (*Echinacea*)

- Basal branching = more flowers
- Long bloom, first year from seed (20 weeks)
- 18-24in. tall



2010 AAS

Cool season winner

Viola

**'Endurio Sky Blue
Martien'**

- Sky blue spring, fall
- Spreading/mounded
- 6in. tall, 12in. wide

Photo courtesy AAS



2010 AAS winner

**Gaillardia
'Mesa Yellow'**

- Mounded 15-20in. tall, not floppy
- Earlier bloom than similar cvs.
- Good for small spaces, containers, butterflies

Photo courtesy AAS



2010 AAS winner

**Marigold (African)
'Moonsong Deep
Orange'**

- Intense orange color
- Double
- Foliage covers old fls
- 12-15in. tall

Photo courtesy AAS



**2010 AAS
bedding plant winner**

**Snapdragon
'Twinny Peach'**

- Unique colors
- Butterfly type, no “snap”
- 10-12in. tall

Photo courtesy AAS



2010 AAS

Bedding plant winner

Zinnia

'Starlight Rose'

- Interspecific cross
- Resistance to powdery mildew, leaf spots
- 12in. tall and wide
- Unique bicolor, shines in evening light

Photo courtesy AAS



2010 AAS
Bedding plant winner

Zinnia
'Double Zahara
Cherry'

- Interspecific cross
- Resistance to powdery mildew, leaf spots
- 12in. tall and wide

Photo courtesy AAS



**2010 AAS
Bedding plant winner**

**Zinnia
'Double Zahara
Fire'**

- Interspecific cross
- Resistance to powdery mildew, leaf spots
- 12in. tall and wide

Photo courtesy AAS



2009 winner

Viola
‘Rain Blue and Purple’

Photo courtesy AAS



2008 winner

Viola

**‘Skippy XL Plum
Gold’**

Photo courtesy AAS



2008 winner

**Osteospermum
'Asti White'**

Photo courtesy AAS

These gardens made possible by:

Burlington Parks and Recreation

Pleasant View Gardens

D.S. Cole Growers

Greenworks, the VNLA

Burlington Garden Club

more information:

perrysperennials.info/research/

Waterfront Park

Perennial Hardiness Research

- ❖ Controlled freezing studies, field trials
- ❖ Grad assistant Sarah Kingsley Richards 03-present
- ❖ Low groundcover plants
- ❖ Midwinter deacclimation
- ❖ Coralbells (*Heuchera*)



Low groundcover hardiness

Based on pot treatment temps., at least 4/6 living

- 19 selections hardy (-11 or -14 C, top rating two years in field)
- 6 selections moderately hardy (-5 or -8 C)
- 8 selections non-hardy (-2 or above, not hardy in zone 4a)

Details: perrysperennials.info/research

Midwinter Deacclimation studies

2009-09 *Salvia* 'Rhapsody in Blue', *Sedum* 'Neon'

2009-10 *Leucanthemum* 'Becky',

Achillea 'Apricot Delight'

Various warm treatments prior to freezing

2008-09 no differences 34F or 40F 2wks or cycling
greenhouse

2008-09 as little as one week 55F, 40/65F N/D detrimental

Made possible in part thanks to funding from Greenworks

Hardiness of Coralbells (*Heuchera*)

Field trials zone 4a 2007 30 cvs, 15 surviving 2009
40 cvs added fall 2009

Controlled freezing studies *villosa* cvs. 2009-11,
2009-10: 'Mocha', 'Blackout', 'Tiramisu', 'Caramel',
'Frosted Violet'

*Made possible by grants from the New Hampshire
Horticulture Endowment*

These studies made possible by:

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New Hampshire Horticulture Endowment

Perennial Plant Association

New England Floriculture

New England Grows

nurseries

(Plant Haven, Plants Nouveau, Blooms of Bressingham, Terra Nova, Quansett, Sunny Border, North Creek)

Thanks!

More on research, events...



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