
JB VISITATIONS:

St. Andrews, Scotland - July.

Presented an invited keynote lecture before the 2nd World Scientific Congress of Golf at the University of St. Andrews. 92 papers were presented in three major topic groupings. They were Part I, The Golfer; Part II, The Equipment; and Part III, The Golf Course and the Game. 33 papers were presented in the third section, with 8 of the papers by United States turfgrass researchers. The 3rd Congress is scheduled to be held again in four years (1998) at St. Andrews University. Also was privileged to spend a half day with the St. Andrews Links Supervisor, Walter Woods.

Edinburgh, Scotland - July

Visited the Murrayfield Stadium facility with Tim Oliver. They have rebuilt and established two turfed sports fields to a high-sand mesh element system. These areas adjacent to the stadium have a dual challenge of functioning as practice fields as well as emergency-over-spill parking during major events.

Turnberry, Scotland - July

Attended the British Open at Turnberry Golf Course on the coast south of Glasgow. Superintendent George Brown had the course in excellent condition. The roughs of fine fescue (*Festuca rubra*) were very impressive, especially in terms of the extensive underlying mat of living stems that had been built up since the course was rebuilt following World War II.

Glasgow, Scotland - July

Visited Professor McGown at Strathclyde University where he is conducting some interesting studies simulating the multiple stress forces involved in the action of horses hooves on turfed surfaces.

UPCOMING JB VISITATIONS:

Provided for Institute Affiliates who might wish to request a visitation when I'm nearby.

- September 14 to 21 - Toledo, Springfield and Columbus, Ohio, USA.
- Sept. 29 to October 4 - Halifax, Nova Scotia, Canada.
- October 15 to 20 - Rome and Milan, Italy.
- Oct. 22 to November 2 - Tokyo, Japan.
- Nov. 12 to 16 - Seattle, Washington, USA.
- Nov. 17 to 30 - Reims and Paris, France.

UPCOMING INTERNATIONAL EVENTS:

November 13 to 18, 1994. Annual Meeting of the C-5 Turfgrass Division of the Crop Science Society and the American Society of Agronomy. Seattle, Washington, USA. Approximately 100 scientific papers on research conducted with turfgrasses will be presented at 15-minute intervals. Also, a symposium on a selected topic will be presented along with the annual meeting of the Turfgrass Division and a field tour of local turf facilities.

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TERMINOLOGY:

- **Evapotranspiration (ET)** - is the total amount of water transpired from plants and evaporated from the associated soil surfaces.
- **Drought resistance** - encompasses a range of mechanisms whereby plants withstand periods of dry weather. There are 3 components: dehydration avoidance, dehydration tolerance, and escape.
- **Dehydration avoidance** - is the ability of a plant to avoid tissue damaging water deficits even while growing in a drought environment favoring the development of water stress. In this case the plant remains green longer.
- **Dehydration tolerance** - is the ability of a plant to endure low tissue water deficits caused by drought. In this case the plant turns brown, but survives.