JOS Session

**Topic:** The basis, history, present status, and progress of edgewise treatment, which remains unchanged today

**Speakers:**
1. James L. Vaden
2. Will A. Andrews
3. Carl F. Gugino

**Summary:**
Orthodontic treatment using the edgewise appliance was first conceived by Edward H. Angle, then further refined by Charles H. Tweed, and although the concepts of extraction and non-extraction have been debated, the Tweed (Tweed-Merrifield) method with the standard edgewise appliance continues to be used today in orthodontic practice and education. Lawrence F. Andrews later developed a straight wire method using pre-adjusted brackets to minimize bending, and a number of methods with varied bracket prescriptions have appeared since then. At present, this is the most widely used orthodontic appliance in the world. In the course of development so far, several approaches have come into widespread use in educational settings, including the Jarabak method and the Begg method; the standard edgewise method and the straight wire method, which include refinements of those methods; and the bioprogressive method, which incorporates growth prediction and treatment in the mixed dentition period.

Meanwhile, since the era of gnathostatic models, the development of the cephalogram, development from the full band method to the direct bonding method, aesthetic braces and lingual braces, and the development of various materials, including super-elastic Ni-Ti alloy wires, have had a considerable influence on the evolution and development of each of these methods. In addition, orthodontic anchor screws and dental CBCT have come into widespread use, producing significant changes in concepts of securing anchorage and limits of tooth movement that were previously considered impossible; and this has resulted in considerable changes in the textbook concepts related to problem lists and the corresponding treatment goals and treatment planning. In this session, we will hear about the basis, history, present status, and progress of edgewise treatment, which still remains unchanged since the advent of TADs and CBCT, from renowned international speakers who are familiar with orthodontic treatment for Japanese people, whose jaw characteristics differ from those of Westerners, requiring special measures in jaw control and treatment mechanics. (312 words)