Preface

The 77th Annual Road School was well attended by members of all cooperating groups. Unfortunately, a five-county ice storm made it impossible for many people to attend. The efforts of all who gave freely of their time toward the success of this venture are gratefully acknowledged.

REGISTRATION

The official registration totaled 1,235. The following tabulation shows the classified Road School registrations in recent years.

Road School Registration (by classification)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>State Highway Personnel . . .</td>
<td>320</td>
<td>387</td>
<td>281</td>
<td>325</td>
<td>284</td>
</tr>
<tr>
<td>County Road Supervisors and Employees . . . . . . .</td>
<td>79</td>
<td>99</td>
<td>79</td>
<td>110</td>
<td>77</td>
</tr>
<tr>
<td>County Highway Engineers and Assistants . . . . . . .</td>
<td>43</td>
<td>47</td>
<td>45</td>
<td>61</td>
<td>52</td>
</tr>
<tr>
<td>County Surveyors and Deputies . . . . . . . .</td>
<td>45</td>
<td>45</td>
<td>47</td>
<td>55</td>
<td>43</td>
</tr>
<tr>
<td>County Commissioners . . . . . . . . . .</td>
<td>128</td>
<td>132</td>
<td>125</td>
<td>126</td>
<td>88</td>
</tr>
<tr>
<td>County Auditors . . . . . . . . .</td>
<td>47</td>
<td>46</td>
<td>54</td>
<td>50</td>
<td>19</td>
</tr>
<tr>
<td>City and Town Officials . . . . . . . .</td>
<td>89</td>
<td>88</td>
<td>120</td>
<td>177</td>
<td>95</td>
</tr>
<tr>
<td>Contractors, Materials and Equipment Suppliers . . . . . .</td>
<td>56</td>
<td>83</td>
<td>71</td>
<td>83</td>
<td>48</td>
</tr>
<tr>
<td>Purdue University . . . . . . .</td>
<td>44</td>
<td>41</td>
<td>44</td>
<td>39</td>
<td>38</td>
</tr>
<tr>
<td>Consulting Engineers . . . . . . .</td>
<td>115</td>
<td>103</td>
<td>129</td>
<td>151</td>
<td>101</td>
</tr>
<tr>
<td>Miscellaneous . . . . . . . . . . . . .</td>
<td>38</td>
<td>48</td>
<td>42</td>
<td>58</td>
<td>40</td>
</tr>
<tr>
<td>Total . . . . . . . . . . . . . . .</td>
<td>1,004</td>
<td>1,119</td>
<td>1,037</td>
<td>1,235</td>
<td>885</td>
</tr>
</tbody>
</table>

COOPERATING GROUPS

The 1989-1990 official directory of the Road School cooperating groups appears on the next three pages.

CHANGE IN PROCEEDINGS

This Proceedings of the 77th Annual Road School will be the last to be printed after the conference. Beginning with the 78th Annual Road School, to be held March 10-12, 1992, The Road School Proceedings will be published as a Preprint. It will still be maintained as an Engineering Extension Series publication, and the series number will continue with no break from this Proceedings.
OFFICIAL DIRECTORY
1991-1992 Officers

PURDUE UNIVERSITY

Steven C. Beering ................................................. President
Henry T. Yang .................................................. Dean, Schools of Engineering
John F. McLaughlin ........................................... Associate Dean, Schools of Engineering
Vincent P. Drnevich ........................................ Head, School of Civil Engineering
                                  Director, Joint Highway Research Project
Charles F. Scholer ........................................... Professor, School of Civil Engineering
                                  Director, Highway Extension and Research Project for Indiana Counties and Cities

INDIANA DEPARTMENT OF TRANSPORTATION

Christine W. Letts ........................................... Commissioner
Donald W. Lucas ........................................... Chief Highway Engineer
Katherine Lyon ........................................... Deputy Commissioner, Highway Development
Daniel A. Novreske ...................................... Deputy Commissioner, Administration
George Shoener ........................................... Deputy Commissioner, Highway Operations
Gunnar Rorbakken ......................................... Deputy Commissioner
                                  Intermodal Transportation and Planning

INDIANA ASSOCIATION OF COUNTY COMMISSIONERS

James Mock — Miami County ........................................... President
Martin Redman — Posey County .................................... Vice President
David Hess — Elkhart County ...................................... Secretary
Corwin Slusher — Cass County .................................... Treasurer
Donald F. Michael ........................................... Executive Secretary

INDIANA ASSOCIATION OF COUNTY HIGHWAY SUPERVISORS

Ken Hutchins — Howard County .................................... President
Michael Williamson — Newton County ........................ Vice President
Milan Levett — Marshall County ............................ Secretary/Treasurer

INDIANA ASSOCIATION OF COUNTY ENGINEERS

William Etzler — Allen County .................................... President
John J. Madden — Steuben County ........................ Vice President
Walter Tharp — Huntington County ........................ Secretary/Treasurer
INDIANA COUNTY SURVEYORS ASSOCIATION

Don Bengel — Porter County ............................................................. President
Larry Fisher — Marshall County ............................................... Northern Vice President
E. R. Gray — Bartholomew County ........................................ Central Vice President
Rollyn Blankenbaker — Clark County ................................ Southern Vice President
John McNamara — St. Joseph County ................................ Secretary/Treasurer

INDIANA STREET COMMISSIONERS ASSOCIATION

Steve Wild — Mount Vernon ............................................................. President
David Miller — Auburn .......................................................... 1st Vice President
Allan Hite — Plymouth .......................................................... 2nd Vice President
Bill Trout — Terre Haute .................................................... 3rd Vice President
Jeff Rudolph — Kokomo ....................................................... 4th Vice President
Randy Strasser — Delphi .......................................................... Secretary/Treasurer

INDIANA SECTION
INSTITUTE OF TRANSPORTATION ENGINEERS

Tom Ford — Indianapolis ............................................................. President
Mike Keeven — Indianapolis ....................................................... Vice President
Mike Holowaty — Indianapolis ............................................................. Treasurer
John Davis — Indianapolis ............................................................. Secretary
Opal Kuhl — Lafayette ............................................................. Director

INDIANA COUNTY AUDITORS ASSOCIATION

Polly Pearce — Hamilton County ............................................................. President
Betsy Brand — Knox County ....................................................... 1st Vice President
William Friend — Miami County ............................................... Northwest Vice President
Betty Shail — LaPorte County ............................................................. Northeast Vice President
Connie Teghtmeyer — Whitley County ............................................................. West Central Vice President
Joe Kaiser — Wayne County .................................................... East Central Vice President
Sam Humphrey — Vanderburgh County ...................................... Southwest Vice President
Norma Bainbridge — Decatur County ............................................................. Southeast Vice President
Jay Walters — Grant County ............................................................. Treasurer
Carolyn Girton — Clay County ............................................................. Secretary

INDIANA CONSTRUCTORS, INC.

Dale Capon — Goshen ............................................................. President
Charles Kahl — Carmel ............................................................. Executive Director
INDIANA CHAPTER
AMERICAN PUBLIC WORKS ASSOCIATION

Charles F. Scholer — West Lafayette ................................................. President
James Mandon — Munster .......................................................... Vice President
William Shassere — Indianapolis ................................................ Indiana Delegate

INDIANA ASSOCIATION OF CITIES AND TOWNS

Dale Orem — Jeffersonville .......................................................... President
James Perron — Elkhart .......................................................... 1st Vice President
Dorothy Hancock — Carmel ................................................... 2nd Vice President
Michael J. Quinn .......................................................... Executive Director

ASSOCIATION OF INDIANA COUNTIES, INC.

Stephen W. Sharp — Floyd County ................................................. President
Avis Gunter — Kosciusko County ................................................ Vice President
Bonnie J. Summe — Noble County ............................................. Vice President
Stuart W. Rhodes — Marion County ............................................. Vice President
Raymond Nuce — Madison County ............................................. Treasurer
Richard J. Cockrum .......................................................... Executive Director