**NFPA Fluid Power Club Activity Ideas**

**Roundtables or Speaker’s Bureau–** This can be done in-person or virtually.NFPA can help identify industry representatives to attend; [just complete this form](https://nfpafoundation.org/wp-content/uploads/2023/10/NFPA-Speakers-Bureau-Program-–-Speaker-Request-Form.docx).

* **Invite a speaker** from the fluid power industry to speak to students about technology applications, innovations, or career paths, or to join a roundtable discussion to gain a better understanding of the fluid power industry.

**Meetings and Study Groups** – NFPA can invite HR or other industry representatives to join.

* **IFPS Certification**: If students are interested in fluid power certifications, the International Fluid Power Society ([www.ifps.org](http://www.ifps.org)) offers student discounts.
* **Study Groups –** Meet to review class material and ask questions of peers.
* **Career Planning–** Meet to share ideas on building resumes for internships or careers, organize workshops for ice breakers and public speaking sessions to prepare for interviews.
* **Achievement Parties –** Celebrate when students or faculty members in the department gain special recognition. Examples include job offers, graduate school acceptance, etc.

**Hands-On Projects** – Create a project to help club members understand basic hydraulics and pneumatics principles. These projects can involve electro-mechanical or mechatronics solutions and NFPA can help identify an industry mentor. Consider solving a problem or task using fluid power. For example, can you design and build a mechanism that can:

* Golf perfect swing
* Bowl a perfect strike
* Launch a tennis ball or a t-shirt
* Automate Skee Ball
* Automate a pinball machine
* Navigate a maze
* Play an instrument
* Crush a pop-can
* Add a fluid power application to your existing project.
* Support the capstone project, [NFPA Fluid Power Vehicle Challenge](https://nfpafoundation.org/universities/programs-resources/fluid-power-vehicle-challenge/)

**Ernie Parker CFPAI CFPCC CFPMIH CFPMMH CFPMIP,** Ernie taught at Hennepin Community College and has over 45 years of experience in the fluid power industry. Ernie was recognized by the International Fluid Power Society and inducted into the inaugural class of the IFPS Hall of Fame for his achievements and contributions to the industry. Ernie has a wealth of knowledge of fluid power and has shared some of his projects with NFPA to help inspire students to design and build their own projects.

* [PowerPoint](https://nfpafoundation.org/wp-content/uploads/2023/12/Fluid-Power-Projects-and-Applications.pdf)
* [4-minute video](https://youtu.be/7MFiwQqr5PE)

**Youth Outreach –** Conduct a youth outreach activity or event to promote and introduce students to the fluid power industry. Additional funding from NFPA may be available for clubs that would like to conduct this. Contact us.