



December 1999

Milwaukee Section  
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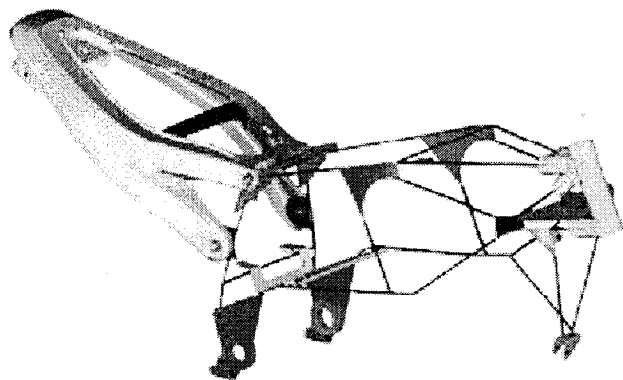
Editor: Dan Ziemann  
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## DECEMBER DINNER MEETING

### Wednesday, December 15, 1999

**TOPIC:** The Optimization of Motorcycle Frame Design Through the Application of Finite Element Analysis Techniques.

**Speaker:** Abraham Askenazi, Manager of Analysis, Analysis and Test Department, Buell Motorcycle



In the last few years, Finite Element Analysis (FEA) has become the most widely accepted simulation tool for conducting advanced engineering analysis. Yet, its most powerful attribute - concept optimization - remains largely untapped. Although FEA is extremely powerful as a design verification tool, it is most valuable when implemented earlier in the design cycle, at the concept stage. When used in this manner - referred to within Buell as "analysis driven design" - FEA can lead to extremely efficient designs.

### MEETING AGENDA

**Tour:** Buell Motorcycle Co.,  
2815 Buell Dr.  
East Troy, Wi.  
414-642-2020

**Meeting:** Roma's Ristorante & Lounge  
N8416 City Rd ES  
East Troy, Wi.

**Menu:** Dinner Buffet: Ham, Beef, Broasted Chicken & Pasta; Parsley & Whipped Potatoes; Vegetable Medley; Salad, Bread, Coffee and Spumoni.

**Social:** 5:00 pm

**Dinner:** 6:00 pm

**Presentation:** 7:00 pm

#### Dinner Costs:

Members & Spouses:	\$17.00
Guests:	\$18.00
Students:	\$ 8.00

**"Tour with Dinner" is limited to 80 people each.**

Registration must be made prior to 3 pm on Friday, December 10th by contacting Kim Kellen at Harley-Davidson, phone (414) 616-1374 or by E-mail at [kim.kellen@harley-davidson.com](mailto:kim.kellen@harley-davidson.com).

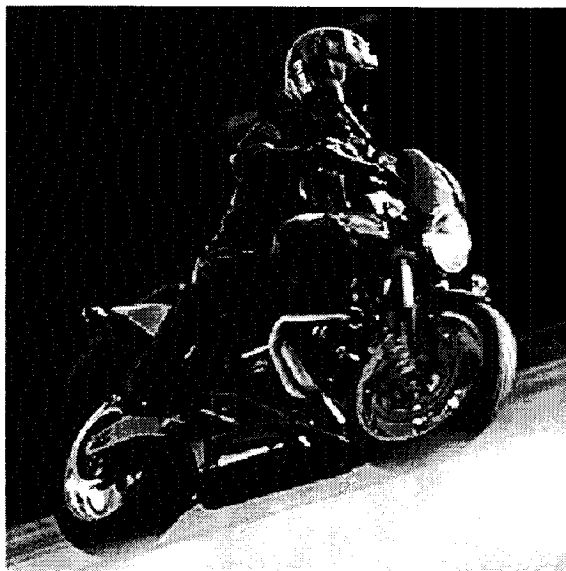
Registration for **"Tour Only"** (no dinner) will begin Monday, December 13th at 7 am. Contact Kim Kellen at (414) 616-1374 or by E-mail at [kim.kellen@harley-davidson.com](mailto:kim.kellen@harley-davidson.com).

**Speaker Biography:** Abraham Askenazi  
Manager of Analysis, Analysis and Test Department,  
Buell Motorcycle Company

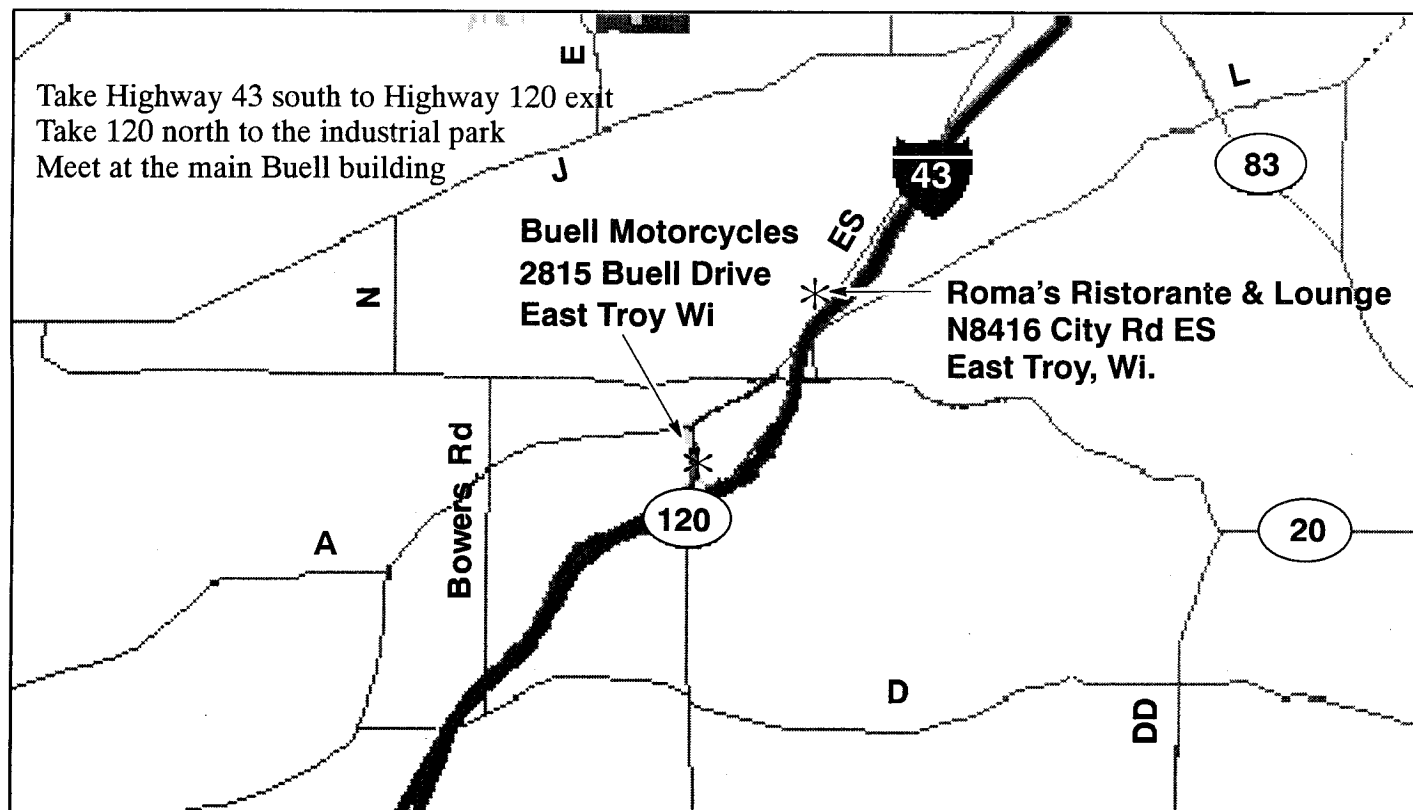
Abe Askenazi serves as Manager of Analysis for the Analysis and Test Department at Buell Motorcycle Company. He has both B.S. and M.S. degrees in Mechanical Engineering from the University of California at Berkeley, with a thesis on "Dynamics of Single Track Vehicles". Abe utilizes Finite Element Analysis (FEA) as a powerful tool in the analysis-driven design process of the complete motorcycle system. By incorporating this and other simulation technologies, Abe assists the Buell development team in enhancing its state-of-the-art vehicle design reputation.

Committed to helping others grow in the use of FEA technology, Abe and Vince Adams, the Director of Engineering at Wyzetek, Inc. (an FEA services company in northern Illinois), have recently co-authored the widely acclaimed book "Building Better Products with Finite Element Analysis". This book was written with the goal of clearing the air around FEA technology and bringing some of the knowledge and techniques of expert analysts to design analysts. Abe has also helped to elevate the Chicago/Milwaukee MECHANICA User Group (MUG) FEA program to an

educational format. Abe shares his Pro/MECHANICA expertise with Wisconsin, Illinois, Indiana and Iowa peers as a regular "fill-in" presenter at MUG meetings. Recognized for his Pro/MECHANICA knowledge and contributions to this organization, he has been an elected officer for the past three years.



**Tour Start Time:** 4:00pm; registration is required (see page 1). Tour attendance is limited to 80 people. **NO CAMERAS ALLOWED.** No open toe shoes or heels higher than 1-1/2 inch permitted.



## Milwaukee Section 1999-2000 Governing Board

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## From Your Chairman:

On behalf of the Milwaukee Section Governing Board, I invite you to take the ever popular tour of the Buell Motorcycle facility and learn more about some state of the art Finite Element analysis. In 1996 one hundred seventy five people toured the facility and had a great time. Reserve your spot early this time.

In case you missed it, the November dinner meeting jointly sponsored by ASME and SAE showcased impressive engineering achievements by student members. Once again, you should contact the student chapter if you need skilled engineers with practical experience.

We are continuing to recruit volunteers for the 2000 SAE Midwest Mini-Baja®. Volunteers are needed for judging, timing, scoring and flagging. If you are able to donate some time during a weekend next June, please contact Alicia Muszynski via e-mail at [alicia\\_muszynski@harley-davidson.com](mailto:alicia_muszynski@harley-davidson.com) or by telephone at 414-616-1348. Thank you for your consideration.

Jerry Fellows  
1999-2000 Chairman  
Milwaukee Section SAE

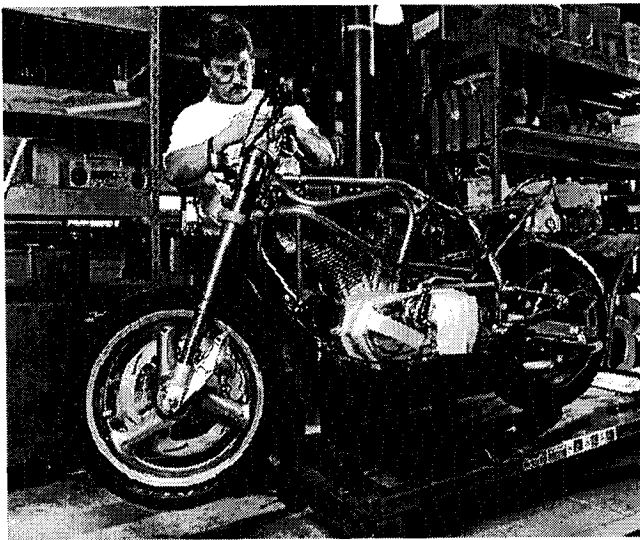




**SAE Milwaukee Section**



**MichiganTech**



# **Buell Motorcycle Factory Tour**

## **Wednesday, December 15**

### **Vehicles On Display At Roma's Restaurant**

### **Meeting Sponsorship**

We would like to thank the following organizations for their continued support of the Milwaukee Section:

Waukesha Engine, Harley-Davidson

For more information on becoming a sponsor, please contact: Jerry Fellows 414-225-8265