

**AMERICAN SOCIETY OF HEATING, REFRIGERATING  
& AIR-CONDITIONING ENGINEERS**

**CHAPTER MEETING**

on

**Tuesday September 10**

at the

**Le Rendezvous**

**1779 Terminal Drive  
Richland, Washington**

**WORKSHOP:**

Coil Basics -

David Honeycutt, R&D Engineering Manager, Colmac Coil

**TECHNICAL FORUM:**

Heat Recovery (w/ emphasis on Heat Pipes) -

Ryan Lawrence, R&D Engineer, Colmac Coil

Dinner and Programs: \$15 (check or exact change in cash preferred)

Reservations - RSVP with one of the following members:

John Sutton: [jasutton@meierinc.com](mailto:jasutton@meierinc.com) <<mailto:jasutton@meierinc.com>>, 735-1589, Cell: 948-9665

Rich Evans: [richevans1@juno.com](mailto:richevans1@juno.com) <<mailto:richevans1@juno.com>>, 946-7955

Carl Brenneise: [carl.b.brenneise@usace.army.mil](mailto:carl.b.brenneise@usace.army.mil)  
<<mailto:carl.b.brenneise@usace.army.mil>>, Cell: (509) 200-1436

**EVENING AGENDA**

5:30 - 6:00 PM Workshop: David Honeycutt - Coil Basics

6:00 - 6:30 PM Social Period

6:30 - 7:30 PM Dinner

7:30 - 7:45 PM Chapter Business Meeting

7:45 - 8:00 PM Break

8:00 - 8:45 PM Technical Forum: Ryan Lawrence - Heat Recovery (with emphasis on Heat Pipes)



OCTOBER 2002

**MID-COLUMBIA CHAPTER**

of the

**AMERICAN SOCIETY OF HEATING, REFRIGERATING  
& AIR-CONDITIONING ENGINEERS**

**CHAPTER MEETING**

On

**Tuesday October 15**

6:45 p.m. to 8:45 p.m.

At

**Celebrities Casino**

**711 Vineyard Drive  
Kennewick, Washington**

**WORKSHOP and TECHNICAL FORUM:**

**David Ray and Kirk Mosher of Johnson Controls**

**Workshop:** Pneumatic Controls Demonstration Panels

**Technical Forum:** Pneumatic Control System Fundamentals

Dinner and Programs: **\$15** (check or exact change in cash preferred)

Reservations - RSVP with one of the following members:

John Sutton: [jasutton@meierinc.com](mailto:jasutton@meierinc.com) <<mailto:jasutton@meierinc.com>>, 735-1589, Cell:  
948-9665

Rich Evans: [richevans1@juno.com](mailto:richevans1@juno.com) <<mailto:richevans1@juno.com>>, 946-7955

Carl Brenneise: [carl.b.brenneise@usace.army.mil](mailto:carl.b.brenneise@usace.army.mil)  
<<mailto:carl.b.brenneise@usace.army.mil>>, Cell: (509) 200-1436

## EVENING AGENDA

5:45 - 6:45 PM Workshop and Social Period:  
6:45 - 7:30 PM Dinner  
7:30 - 7:45 PM Chapter Business Meeting  
7:45 - 8:00 PM Break  
8:00 - 8:45 PM Technical Forum: Fundamentals of Pneumatic Controls

### **Workshop during the social period:** Demonstration Panels

David and Kirk will have demonstration panels set up with operating pneumatic control system components. This will be a trade show style presentation so feel free to request demonstrations and ask questions.

### **Technical Forum:** Pneumatic Control System Fundamentals

Kirk and David will explain the fundamentals of how pneumatic control systems and components work. They will also share what works when a building mechanical control system is to be phased into a DDC control system.

### **Kirk Mosher**

Kirk is the Installation Manager for Johnson controls. He has 25 years experience with Johnson Controls. Kirk has been a great resource for others at Johnson Controls.

### **David Ray**

David is degreed in Financial Management and has been with Johnson Controls for approximately 10 years.

## **LAST MONTHS MEETING**

The official attendance was 19 persons at last months meeting. David Honeycutt and Ryan Lawrence of Colmac Coil presented our Workshop and Technical Forum. The basics of coil construction and heat recovery were presented.

Last months meeting was our last time to be at the Terminal Drive location. This months meeting will be at Celebrities Casino.

## **DIRECTIONS TO Celebrities Casino**

**711 Vineyard Drive**

**Kennewick, Washington**

(across the street from BIG 5 Sporting Goods in Kennewick)

From Pasco:

**Take the first right exit** after crossing the Blue Bridge on U.S. Highway **395** southbound.

**Take the next right exit** (Port of Kennewick, Columbia Drive) onto eastbound **Columbia Dr.**

**Turn right** (south) at the first traffic signal onto **Fruitland**.

**Turn right** (west) at the stop sign onto **W. 1<sup>st</sup> Ave** after crossing

- Grand Ronde (traffic signal?)
- Deschutes, (traffic signal?)
- two railroad crossings,
- Canal Dr.,
- Kennewick AVE (traffic signal)

W. 1<sup>st</sup> Ave will become **Vineyard Drive** by the time you see the BIG 5 Sporting Goods sign.

Celebrities Casino is at **711 Vineyard Drive** in the same building as Celebrity Bowl on the south side of Vineyard across the street from BIG 5 Sporting Goods.

We will be meeting inside Celebrities Casino.



# The TUMBLEWEED

DECEMBER 2002  
MID-COLUMBIA CHAPTER

of the

AMERICAN SOCIETY OF HEATING,  
REFRIGERATING & AIR-CONDITIONING ENGINEERS

## CHAPTER MEETING

On

**Tuesday December 10**

5:30 p.m. to 9:20 p.m.

At

**Celebrities Casino**

**711 Vineyard Drive  
Kennewick, Washington**

**CHRISTMAS DINNER PROGRAM:** [Loren \(Chip\) Larson](#)

**The Future Is Now** (Word Soup, Lighting, Hydrogen Revolution, Entertainment and Recreation)

How quickly does science fiction become science fact? You may be surprised, especially with new technologies invading every aspect of our lives. Hear about lights without lamps, appliances without plugs, cars without gasoline, fun without guilt - the stuff of science fiction coming to a store near you soon!

Dinner and Programs: **\$16.38 if paying with a check, \$17.00 if paying cash.**

Dinner will be **PRIME RIB Buffet with potatoes, salad, vegetables, rolls and dessert.**

Reservations – RSVP with one of the following members:

John Sutton: 735-1589, Cell: 948-9665

Rich Evans: [richevans1@juno.com](mailto:richevans1@juno.com), 946-7955

Carl Brenneise, (509) 527-7540 Cell: (509) 200-1436



## EVENING AGENDA

- 5:30 - 6:30 PM Social Period  
6:30 - 7:30 PM Dinner  
7:30 - 7:40 PM Chapter Business Meeting  
7:40 - 7:50 PM Break  
7:50 - 9:00 PM Christmas dinner Program: **Emerging Technologies**

## DIRECTIONS TO Celebrities Casino

### 711 Vineyard Drive

### Kennewick, Washington

(across the street from BIG 5 Sporting Goods in Kennewick)

From Pasco:

**Take the first right exit** after crossing the Blue Bridge on U.S. Highway **395** southbound.

**Take the next right exit** (Port of Kennewick, Columbia Drive) onto eastbound **Columbia Dr.**

**Turn right** (south) at the first traffic signal onto **Fruitland**.

**Turn right** (west) at the stop sign onto **W. 1<sup>st</sup> Ave** after crossing

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- two railroad crossings,
- Canal Dr.,
- Kennewick AVE (traffic signal)

W. 1<sup>st</sup> Ave will become **Vineyard Drive** by the time you see the BIG 5 Sporting Goods sign.

Celebrities Casino is at **711 Vineyard Drive** in the same building as Celebrity Bowl on the south side of Vineyard across the street from BIG 5 Sporting Goods.

We will be meeting inside Celebrities Casino.



# The TUMBLEWEED

January 2003

MID-COLUMBIA CHAPTER

of the

AMERICAN SOCIETY OF HEATING,  
REFRIGERATING & AIR-CONDITIONING ENGINEERS

## CHAPTER MEETING

On

**Tuesday January 14**

5:30 p.m. to 9:00 p.m.

At

**Celebrities Casino**

**711 Vineyard Drive  
Kennewick, Washington**

### **CHRISTMAS DINNER PROGRAM:** [Carl Brenneise](#)

**Design Team Dynamics** (Communication and Problem Solving in the Workplace)

What to do when someone in the workplace offends you. Recognizing offensive behavior and sensitive coworkers.  
Guidelines for Productive Communication. Guidelines for Problem Solving.

Dinner and Programs: **\$16.38 if paying with a check, \$17.00 if paying cash.**

Dinner will be **Italian Buffet**

Reservations – RSVP with one of the following members:

John Sutton: 735-1589, Cell: 948-9665

Rich Evans: [richevans1@juno.com](mailto:richevans1@juno.com), 946-7955

Carl Brenneise, (509) 527-7540 Cell: (509) 200-1436



## EVENING AGENDA

- 5:30 - 6:30 PM Social Period  
6:30 - 7:30 PM Dinner  
7:30 - 7:40 PM Chapter Business Meeting  
7:40 - 7:50 PM Break  
7:50 - 8:30 PM Program: **Design Team Dynamics**

## DIRECTIONS TO Celebrities Casino

### 711 Vineyard Drive

### Kennewick, Washington

(across the street from BIG 5 Sporting Goods in Kennewick)

From Pasco:

**Take the first right exit** after crossing the Blue Bridge on U.S. Highway **395** southbound.

**Take the next right exit** (Port of Kennewick, Columbia Drive) onto eastbound **Columbia Dr.**

**Turn right** (south) at the first traffic signal onto **Fruitland**.

**Turn right** (west) at the stop sign onto **W. 1<sup>st</sup> Ave** after crossing

- Grand Ronde (traffic signal?)
- Deschutes, (traffic signal?)
- two railroad crossings,
- Canal Dr.,
- Kennewick AVE (traffic signal)

W. 1<sup>st</sup> Ave will become **Vineyard Drive** by the time you see the BIG 5 Sporting Goods sign.

Celebrities Casino is at **711 Vineyard Drive** in the same building as Celebrity Bowl on the south side of Vineyard across the street from BIG 5 Sporting Goods.

We will be meeting inside Celebrities Casino.

# National Engineers Week Banquet

Sponsored by the

**Mid-Columbia Chapter**

of the

**AMERICAN SOCIETY OF HEATING,  
REFRIGERATING & AIR-CONDITIONING ENGINEERS**

on

**Friday, February 21**

**6:00 p.m. to 9:00 p.m.**

at

**O'Callahan's at the Shilo Inn**

**50 Comstock St.**

**Richland, Washington**

Dinner and Program: \$25.00 (includes sales tax, check or exact change in cash preferred).

Reservations – RSVP with one of the following:

Jeff McCullough: [jeff.mccullough@pnl.gov](mailto:jeff.mccullough@pnl.gov), 375-6317

Carl Brenneise: [carl.b.brenneise@usace.army.mil](mailto:carl.b.brenneise@usace.army.mil), Cell: (509) 200-1436

Ravi Ganta: [ravi\\_ganta@rl.gov](mailto:ravi_ganta@rl.gov), 371-5466

Suresh Grover: [sdgrover@bechtel.com](mailto:sdgrover@bechtel.com), 371-8253

John Sutton: [jasutton@meierinc.com](mailto:jasutton@meierinc.com), 735-1589, Cell: 948-9665

Evening Agenda

6:00 - 7:00 PM Social Period

7:00 - 7:45 PM Dinner

7:45 - 9:00 PM Program and Featured Guest



Featured Guest: **U.S. Army Special Forces Colonel Bill Hillar (ret.)**

### **“HOMELAND SECURITY: Fact and Fiction”**

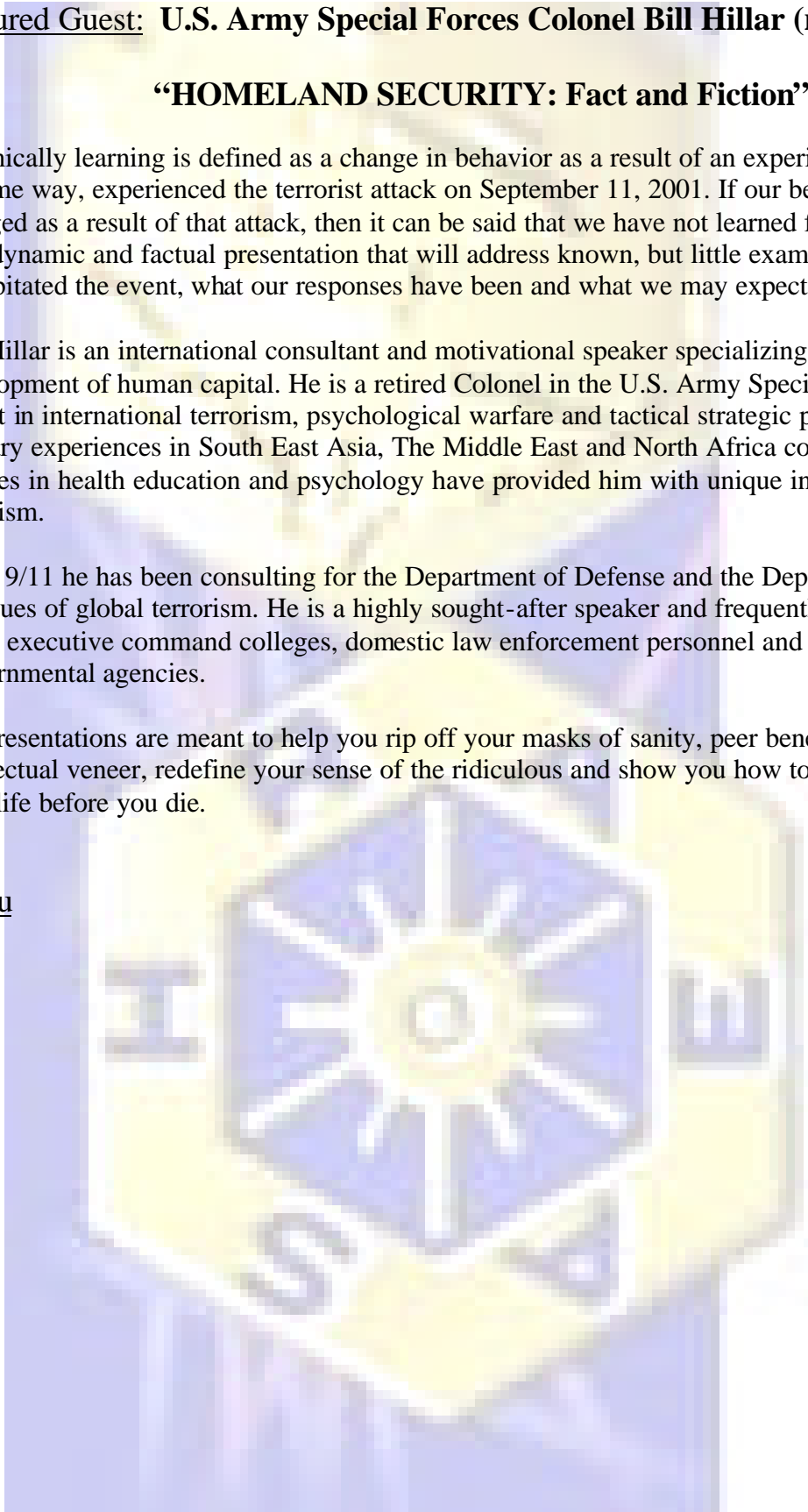
Technically learning is defined as a change in behavior as a result of an experience. Most of us, in some way, experienced the terrorist attack on September 11, 2001. If our behavior has not changed as a result of that attack, then it can be said that we have not learned from it. This will be a dynamic and factual presentation that will address known, but little examined, factors that precipitated the event, what our responses have been and what we may expect in the future.

Bill Hillar is an international consultant and motivational speaker specializing in the development of human capital. He is a retired Colonel in the U.S. Army Special Forces and an expert in international terrorism, psychological warfare and tactical strategic planning. His military experiences in South East Asia, The Middle East and North Africa combined with his degrees in health education and psychology have provided him with unique insights into global terrorism.

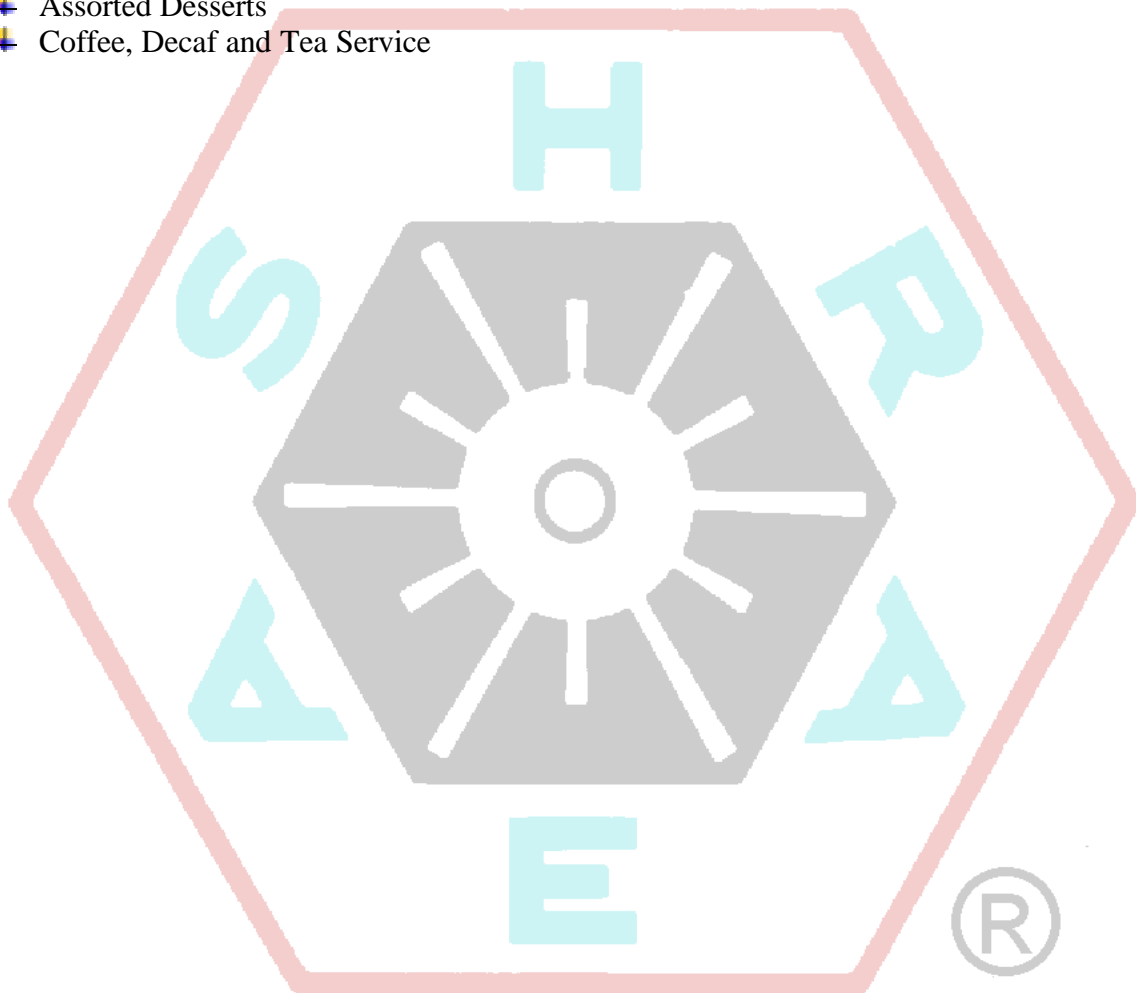
Since 9/11 he has been consulting for the Department of Defense and the Department of Justice on issues of global terrorism. He is a highly sought-after speaker and frequently works with the FBI's executive command colleges, domestic law enforcement personnel and other U.S. Governmental agencies.

His presentations are meant to help you rip off your masks of sanity, peer beneath our intellectual veneer, redefine your sense of the ridiculous and show you how to keep from losing your life before you die.

Menu



- ✚ Carved Baron of Beef w/Creamed Horseradish
- ✚ Chicken Cordon Bleu
- ✚ Garlic Mashed Potatoes
- ✚ Green Bean Almandine
- ✚ Tossed Green Salad w/Dressings
- ✚ Fresh Vegetable Tray
- ✚ Pepperoni Bow-Tie Pasta Salad
- ✚ Greek Salad
- ✚ Fresh Fruit Tray
- ✚ Warm Dinner Rolls w/Butter
- ✚ Assorted Desserts
- ✚ Coffee, Decaf and Tea Service



# CHAPTER MEETING

## MID-COLUMBIA CHAPTER

of the

## AMERICAN SOCIETY OF HEATING, REFRIGERATING & AIR-CONDITIONING ENGINEERS

On

# Tuesday March 18

At

## Celebrities Casino

711 Vineyard Drive  
Kennewick, Washington

**DINNER PROGRAM:** [Terry Herron](#)  
Hydronic Pump Selection and Design Considerations

Dinner and Programs: **\$15.00, tax included, check or cash (check preferred).**  
Dinner will be **Mexican Buffet**

Reservations - RSVP with one of the following members:

John Sutton: 735-1589, Cell: 948-9665

Rich Evans: [richevans1@juno.com](mailto:richevans1@juno.com) <<mailto:richevans1@juno.com>>, 946-7955

Carl Brenneise, (509) 527-7540 Cell: (509) 200-1436

### TENTATIVE EVENING AGENDA

5:30 - 6:30 PM Social Period

6:30 - 7:30 PM Dinner

7:30 - 7:40 PM Chapter Business Meeting

7:40 - 7:50 PM Break

7:50 - 8:30 PM Program: **Hydronic Pump Selection and Design Considerations**



# The TUMBLEWEED

APRIL 2003

MID-COLUMBIA CHAPTER

of the

AMERICAN SOCIETY OF HEATING,  
REFRIGERATING & AIR-CONDITIONING ENGINEERS

## CHAPTER MEETING

On

**Tuesday April 15**

6:00 p.m. to 9:00 p.m.

At

**Celebrities Casino**

711 Vineyard Drive  
Kennewick, Washington



DINNER PROGRAM: VAV System Design: Problems and Opportunities

[William J. Coad, ASHRAE Distinguished Lecturer](#)

Dinner and Program: **\$15.00, tax included, check or cash (check preferred).**

Dinner will be **Polynesian Buffet**

Reservations – RSVP with one of the following members:

John Sutton: 735-1589, Cell: 948-9665

Rich Evans: [richevans1@juno.com](mailto:richevans1@juno.com), 946-7955

Carl Brenneise, (509) 527-7540 Cell: (509) 200-1436

## VAV System Design: Problems and Opportunities

This talk explains the history and the physical principles of VAV systems. After exploring the genesis of the concept, the evaluation of state-of-the-art systems is presented from a critical perspective. Through an analysis of the deficiencies in the performance and economic parameters, concepts of systems based upon elementary thermodynamics and fluid theory coupled with decreased complexity will be presented.

### EVENING AGENDA

6:00 – 7:00 PM Social Period  
7:00 - 7:40 PM Dinner  
7:40 - 7:50 PM Chapter Business Meeting  
7:50 – 8:00 PM Break  
8:00 – 9:00 PM Program: **VAV System Design: Problems and Opportunities**

**William J. Coad, P.E.**  
**McClure Engineering Associates**  
**St. Louis, MO**

William J. Coad is a principle and immediate past Chairman and CEO of McClure Engineering Associates, a mechanical and electrical consulting engineering firm. He has been with the company for forty years engaged in the design and analysis of all aspects of building systems and is a principle of the company. He is also on the Board of Directors of Mestek Corporation of Pittsburgh and of Exergen Corporation of Boston. He was an affiliate professor of mechanical engineering at Washington University teaching graduate level courses in HVAC systems for 29-years, and was the **2001-2002 President of the American Society of Heating, Refrigerating and Air-Conditioning Engineers.**

Mr. Coad has authored two books and over one hundred articles and papers on various aspects of building systems and energy engineering. He and his firm have been pioneers in the development of computer programs for building energy analysis, cogeneration systems, well water source heat pumps, one-pipe chilled water systems, and variable flow chilled water systems. He has been active in technical contributions, including ASHRAE's highest award for technical achievement, the F. Paul Anderson Award.

### UPDATE:

We have reason to believe the above information as sent to us by ASHRAE has an update. The February 2003 issue of HPAC Engineering has an "In Brief" article announcing the formation of **Coad Engineering Enterprises Inc.** This company has two operating subsidiaries: Coad Engineering Consulting, and Engineering Software International.

## DIRECTIONS TO Celebrities Casino

### 711 Vineyard Drive

### Kennewick, Washington

(across the street from BIG 5 Sporting Goods in Kennewick)

### From Tri-Cities Airport in Pasco:

Follow **20<sup>th</sup> Avenue** out to **U.S. Highway 395**

Turn **right** onto the on-ramp that will get you Westbound on **Interstate 182**.

Take the next exit onto **U.S. Highway 395 Southbound**.

Take the **first right exit** after crossing the Blue Bridge on U.S. Highway **395** southbound.

Take the next right exit (Port of Kennewick, Columbia Drive) onto eastbound **Columbia Dr.**

Turn **right** (south) at the first traffic signal onto **Fruitland**

Turn **right** (west) at the stop sign onto **W. 1<sup>st</sup> Ave** after crossing

- Grand Ronde (traffic signal?)
- Deschutes, (traffic signal?)
- two railroad crossings,
- Canal Dr.,
- Kennewick AVE (traffic signal)

W. 1<sup>st</sup> Ave will become **Vineyard Drive** by the time you see the BIG 5 Sporting Goods sign.

### From Interstate 82:

Take exit **113** (Kennewick Pasco) onto **US Highway 395 northbound** North into Kennewick. Drive past WAL\*MART at 27<sup>th</sup> Avenue, and Honda and Harley-Davidson at 19<sup>th</sup> Avenue.

Turn **right** (east) onto **10<sup>th</sup> Avenue** at the traffic signal when you see Fred Meyer on your left and Benton PUD on your right.

Drive **through** the traffic signal at S. Vancouver St.

Turn **left** (north) at the traffic signal onto **Olympia**

Turn **right** (east) at the traffic signal onto **4<sup>th</sup> Avenue**

W. 4th Ave will become **Vineyard Drive** by the time you see the BIG 5 Sporting Goods sign.

Celebrities Casino is at **711 Vineyard Drive** in the same building as Celebrity Bowl on the south side of Vineyard across the street from BIG 5 Sporting Goods.

We will be meeting inside Celebrities Casino.