

**ONE DAY SEMINAR ON  
“HEAT EXCHANGER NETWORK USING PINCH  
TECHNOLOGY”**

**At**

**A. D. Patel Institute of Technology, New Vallabh Vidyanagar  
(A Charutar Vidya Mandal Institution)**

**On  
9<sup>TH</sup> SEPTEMBER, 2017**

***Jointly Sponsored By,  
Mechanical Engineering Department, ADIT,  
The Institution of Engineers (India) Vallabh Vidyangar  
Local Center***

**ONE DAY SEMINAR ON  
“HEAT EXCHANGER NETWORK USING PINCH TECHNOLOGY”**

At

**A. D. Patel Institute of Technology, New Vallabh Vidyanagar**

On 9<sup>TH</sup> September, 2017

**Jointly Sponsored By,**

*Mechanical Engineering Department, ADIT,*

*The Institution of Engineers (India) Vallabh Vidyanagar Local Center.*

---

**ACTIVITY REPORT**

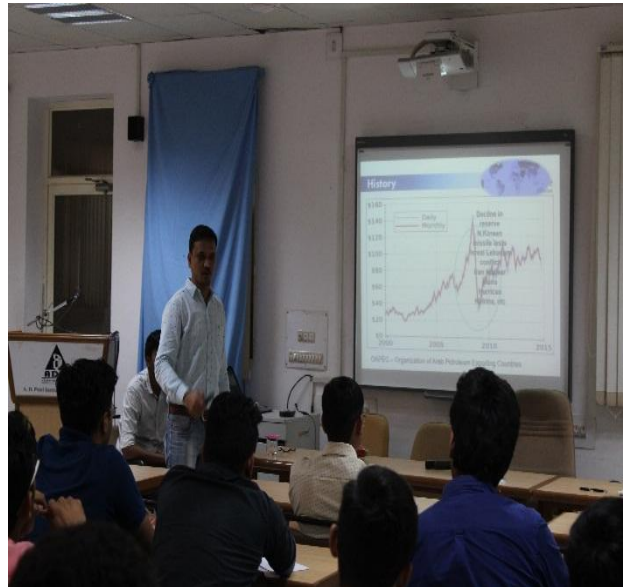
Pinch technology is a methodology for minimizing energy consumption of chemical processes by calculating minimum energy consumption and achieving them by optimizing heat recovery systems, energy supply methods and process operating conditions. Now-a-days, any new chemical plant/process is designed considering the pinch technology fundamentals for maximum energy recovery. Existing chemical plants are also modified using pinch technology to harvest the benefits of pinch technology.

The registration for the workshop started sharp at 8:30 am in the morning. Six Faculty members and sixteen student participant had registered on the spot. Total participants registered were 52 out of which 50 participants attended the seminar successfully. The seminar started at 09:30 am. In the beginning, the inaugural session was held in between 09:30 to 10:30 am. The welcome address was delivered by Prof. Mehul B. Patel, Asst. Professor, Department of Mechanical Engineering., ADIT and followed by Prayer. Further the Guests and Experts were introduced and were welcomed with flowers at ADIT. The inspirational speech was given by Dr. R. K. Jain, Principal, ADIT for the commencement of the seminar.





The technical sessions were started at 10:30 am in which the expert lectures were delivered by Prof. Vasdev Singh, Advisor, ADIT. The topics covered by the speaker were Introduction and Importance of Heat Exchanger Network and Pinch Technology followed by real time case studies. The speaker concluded his talk by 11:30 am. The next session was engaged by Mr. Kutub Ujjainwala, Sr. Manager, Reliance Industries Ltd., Vadodara. The topics covered by the expert are industrial case study on pinch technology followed by numerical and interactive session. At 01:30 pm to 02:15 pm there was a lunch break.



The noon technical session commenced at 02:15 pm with a key note lecture by Dr. N. K. Chavda, Associate Professor, ADIT on the topic Energy Target, Area Target and Cost Target of Petroleum Plant – Case Studies. Numerical on each topic were taught and its examples were given for calculations. There was a tea break at 4:00 pm.



After tea break, Technical session on pinch technology – case study was presented. Following session was Valedictory Session, during this session memento to the expert was presented and Feedback from participants were taken. Seminar ended with ADIT anthem followed by National anthem.

The question-answer session was interactive and vibrant one. All have participated and solved their queries.

Finally the seminar was a great success and appreciated by all. The participants gained much benefit from the seminar. The real success lies in that they were forced to think in the direction of Pinch Technology and their case studies.

Place : ADIT, New V. V. Nagar.  
Date : 9<sup>th</sup> September, 2017.

**(Dr. N. K. Chavda)**  
**Coordinator**

**ONE DAY SEMINAR ON  
“HEAT EXCHANGER NETWORK USING PINCH TECHNOLOGY”**

**At**

**A. D. Patel Institute of Technology, New Vallabh Vidyanagar**

**On 9<sup>TH</sup> September, 2017**

**Jointly Sponsored By,**

*Mechanical Engineering Department, ADIT,*

*The Institution of Engineers (India) Vallabh Vidyangar Local Center*

**GUEST SPEAKERS**

<b>Sr. No.</b>	<b>Name of the Guest Speaker</b>	<b>Brief Introduction of Speaker</b>	<b>Topic of Discussion</b>
1	Prof. Vasdev Singh	Advisor, A D Patel Institute of Technology, V V Nagar	Introduction and importance of Heat Exchanger Network and Pinch Technology
2	Mr. Kutub Ujjainwala	Sr. Manager, Reliance Industries Ltd., Vadodara	Case Study on Pinch Technology
3	Dr. N. K. Chavda	Associate Professor, A D Patel Institute of Technology, V V Nagar	Case Study on Pinch Technology

## **LIST OF COORDINATORS AND COMMITTEE MEMBERS**

### **Chief Patron**

Dr. C. L. Patel, Chairman,  
Charutar Vidyamandal, V. V. Nagar.

### **Patrons**

Dr. S. G. Patel, Hon. Secretary,  
Er. V. M. Patel, Hon. Jt. Secretary,  
Dr. Nikhil Zaveri, Director General,  
Charutar Vidyamandal, V. V. Nagar.

### **Advisory Committee**

Dr. Kaushik Nath, Chairman,  
Prof. R. D. Patel, Secretary,  
The I. E. (India) V V Nagar Local Centre

### **President**

Dr. R. K. Jain, Principal, ADIT

### **Convener**

Dr. V. N. Singh, Head, MED., ADIT

### **Technical Program Chair**

Prof. Vasdev Singh, ADIT

### **Programme Coordinator**

Dr. N. K. Chavda

### **Co-coordinators**

Prof. M. B. Patel          Prof. Nirav Parmar

### **Organizing Secretaries**

Dr. M. I. Shah          Dr. Y. D. Patel

### **Programme Committee Members**

Prof. R. B. Choksi      Prof. S. Y. Rajput  
Prof. K. N. Shah      Prof. P. K. Kamaliya  
Prof. A. Y. Joshi      Prof. Mitul Malli  
Prof. R. R. Shah      Prof. A. S. Pandey  
Prof. M. N.              Prof. M. H. Thakkar

Makwana

Prof. B. J. Sheth      Prof. Vaishal Banker  
Prof. B. J. Dutt      Prof. Sankalp Soni  
Prof. S. B. Bhatia      Prof. Harshil Patel  
Prof. K. J. Shah      Prof. Bhavesh Solanki  
Prof. H. B. Joshi      Prof. Ashwin Patel  
Prof. T. R. Prajapati      Prof. Manojkumar  
Prof. R. J. Desai

### **Student Co-ordinators**

Viral K. Kachchhi      Mihir K. Joshi  
Haren N. Suthar      Tej D. Patel