

## OVERVIEW:

The purpose of the Chemical Dependency Training Consortium of the Northwest is to provide low-cost, quality training for the staff, interns and volunteers of member agencies and other professional caregivers. All training provided is NAADAC approved and designed to meet Washington State Department of Health (DOH) training requirements.

## OUR MEMBERS:

- A First Place
- A New Safehaven
- Anchor Point Counseling Center
- Astoria Pointe/ The Rosebriar
- ChangePoint, Inc.
- Clark County District Court Corrections
- Columbia River Mental Health Services
- Columbia Treatment Services
- Community Services Northwest
- Cowlitz Tribal Treatment
- DePaul Treatment Centers
- Drug Abuse Prevention Center
- Hazelden Springbrook
- Helping Professionals Wellness Center
- Kaiser Permanente Department of Addiction Medicine
- Lifeline Connections
- Modus Vivendi LLC
- Portland VA Medical Center Vancouver Division
- Providence Health Systems
- PeaceHealth Southwest Medical Center
- Western Psychological & Counseling Services P.C.

CDTC is approved by NAADAC Approved Education Provider Program. Provider #: 721.

**This activity qualifies for 6 hours.**

Full attendance is required to receive credit;  
variable credit for partial attendance may not be awarded.

## DIRECTIONS:



**PeaceHealth Southwest Mill Plain Campus  
Health Education Center  
Located off 92<sup>nd</sup> Ave & Mill Plain Blvd.  
600 N.E. 92<sup>nd</sup> Ave.  
PLEASE PARK IN PARKING GARAGE**

### From I-5:

- Exit 1A -- Highway 14 East, Lieser Road exit
- Turn left and cross over Hwy 14
- Road ends at Mill Plain; turn right (east)
- 92nd Avenue is third light, turn left
- Take 2<sup>nd</sup> left. The Health Education Center is directly in front of you.
- Turn left into parking garage. Please don't park in lot.

### From I-205:

- Exit 28 -- Mill Plain West
- 92nd Avenue is 5 traffic signals from I-205, turn right,
- Take 2<sup>nd</sup> left. The Health Education Center is directly in front of you.
- Turn left into parking garage. Please don't park in lot.

## CDTC

P.O. Box 847  
Vancouver, WA 98666  
Phone (503) 805-0989 VFax 1-360-557-5032  
[www.addictionceu.org](http://www.addictionceu.org)  
[cdtc@addictionceu.org](mailto:cdtc@addictionceu.org)

# CHEMICAL DEPENDENCY TRAINING CONSORTIUM of the Northwest



## Biopsychology of Alcohol and Other Drugs

Presented by  
Clark County District Court  
Corrections

Friday, July 11, 2014  
9:00 a.m. – 4:30 p.m.

PeaceHealth Southwest  
Mill Plain Campus  
Health Education Center  
600 NE 92<sup>nd</sup> Ave.,  
Vancouver, WA



The aim of this training is to familiarize participants with the relationship between brain structure, and function, as it relates to many of the complex cognitive behaviors influenced by drugs. Specific drugs (including alcohol, heroin, cocaine, methamphetamine, and cannabinoids, the "psychoactive" chemicals found in marijuana) act directly on specific molecular targets, located on neurons, and alter their structure, and thus how they operate. Such limited "drug actions" will temporarily change the activity of neurons, in certain "networked" areas of the brain that underlie social decision making, selective attention, memory, feeling, and other complex human behaviors. Chronic drug exposure will change network connections more permanently, in ways that lead to tolerance, craving, abuse, dependence, withdrawal, and relapse.

In this training we will explore where drugs act, how they change neural activity, how chronic drug exposure leads to persistent structural changes in the brain, and the functional significance of specific networks that generate memory, appropriate social decision making, inhibition of inappropriate behavior, and other psychological abilities affected by drugs. We will also discuss what an explicit knowledge of structure-function relationships suggests about treatment options, including pharmacotherapy and behavior-based interventions, including cognitive-behavioral therapy.

**OBJECTIVES:**

This training will:

- Explain how neurons carry information,
- Explain how neurons communicate with each other across synapses, and why the synapse represents a target-rich environment for drug actions,
- Describe four types of protein targets where drugs might act to change structure and function,
- Provide examples of distributed networks in the

brain, and the cognitive behaviors they carry out, and why specific drug action in these networks might affect those behaviors (e.g., why does alcohol's specific action in frontal lobe impair social decision making?), and

- Explain why pharmacotherapy, cognitive behavior therapy, or a combination of drugs/CBT might help decrease the risk of relapse in some individuals

**AGENDA:**

09:00 – 09:10	CDTC Staff Announcements
09:10 – 09:50	What, Where, and How of drugs.
09:50 – 10:45	The 411 on Neurons
10:45 – 11:00	Break
11:00 - Noon	Introduction to the synapse.
12:00 - 1:00	Lunch Break on own
1:00 – 2:15	Cortical Lobes and decision making
2:15 – 2:30	Break
2:30 – 4:15	Actions and Effects of drugs
4:15 – 4:30	CDTC Wrap-Up & Evaluations

**SPEAKER:**

**Bill Griesar, Ph.D.**, loves teaching, and explaining how networks of linked neurons carry out complex cognitive behavior. In addition to teaching, he routinely brings brains (rat, monkey, human) to K-8 classrooms at area public schools to teach about the brain and behavior. Here is his vitae:

- Adjunct Instructor, Psychology, Washington State University – Vancouver since 2001,
- Instructor, Psychology, Portland State University,
- Adjunct Instructor, Speech & Hearing Sciences, Portland State University,
- Adjunct Instructor, Neuroscience, Washington State University – Vancouver,
- Affiliate Graduate Faculty, Behavioral Neuroscience, Oregon Health & Science University, and
- Science Coordinator, NW Noggin Science Education Outreach.

**Pre-registration and pre-pay is required. Seating is limited. Please register early.**

**WAYS TO REGISTER**

**1. GO ONLINE TO [WWW.ADDICTIONCEU.ORG](http://WWW.ADDICTIONCEU.ORG) AND**

**SELECT REGISTRATION METHOD.**

**2. MAIL THIS FORM AND PAYMENT TO:**

CDTC  
P.O. BOX 847  
VANCOUVER, WA 98666

**3. FAX THIS FORM THEN MAIL PAYMENT**

vFAX: 1-360-557-5032

**PLEASE CIRCLE ENROLLMENT STATUS:**

MEMBER \*\*           **\$50.00**

NON-MEMBER       **\$75.00**

STUDENT           **\$20.00**

*\*\*Member Agencies listed on back\*\**

Name: \_\_\_\_\_

Employer: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Cell #: \_\_\_\_\_

Office #: \_\_\_\_\_

E-Mail: \_\_\_\_\_

For convenience, registration confirmations are sent via email. Please add [cdtc@addictionceu.org](mailto:cdtc@addictionceu.org) (7/2014)

Please review our refund and credit policy at [www.addictionceu.org](http://www.addictionceu.org)

Participant check in begins at 8:30 a.m. The seminar begins at 9:00 a.m. and concludes at 4:30 p.m. There is a one hour break for lunch on your own.