

FACULTY LIST
SPRING SEMESTER - ACADEMIC YEAR 2008-09

CODES: T – Tenure; TT – Tenure-Track (1 – Professor 2 – Associate 3 – Assistant 4 – Instructor)
NTT – Non Tenure Track Teaching/Instructional (1 – Professor, 2 – Associate, 3 – Assistant, 4 – Instructor)
NTTC – Non Tenure Track Clinical (1 – Professor, 2 – Associate, 3 – Assistant, 4 – Instructor)
 V – Visiting (1 – Professor, 2 – Associate, 3 – Assistant, 4 – Instructor)
 * Initial Appointment ** Initial One Semester Appointment USL – University Study Leave
LOA – Leave of Absence FMLA – Family Medical Leave of Absence

AFRICAN-AMERICAN STUDIES

TENURE/TENURE TRACK (6)

T2 – Dr. Nathaniel Norment, Jr., Chair
 T2 – Dr. Abu Abarry
 T2 – Dr. Nilgun Anadolu-Okur
 T1 – Dr. Molefi K. Asante
 T2 – Dr. Marie-Josée Cerol (aka Ama Mazama)
 T2 – Dr. Sonja Peterson-Lewis

NON TENURE TRACK (5)

NTT3 – Dr. Nana Abarry
 NTT3 – Dr. Darwin Fishman
 NTT3 – Dr. Anthony Monteiro
 NTT3 – Dr. Maxwell Stanford, Jr.
 NTT3 – Dr. Edward L. Wonkeryor

AMERICAN STUDIES

NON TENURE TRACK (2)

DL – Mr. Kenneth Finkel *
 NTT3 – Dr. Lisa Rhodes

ANTHROPOLOGY

TENURE/TENURE TRACK (12)

T1 – Dr. Mindie Lazarus-Black, Chair *
 T2 – Dr. Niyi Akinnaso
 T2 – Dr. Paul Garrett
 T1 – Dr. Judith Goode
 (Joint appt. w/GUS)
 T1 – Dr. Leonard Greenfield
 T2 – Dr. Jayasinhji Jhala (USL-Spring)
 T1 – Dr. Anthony J. Ranere (USL-Spring)
 TT3 – Dr. L. Christie Rockwell
 T2 – Dr. Richard M. Stewart
 T2 – Dr. Charles A. Weitz
 T2 – Dr. Sydney White
 TT3 – Dr. Jessica Winegar

ANTHROPOLOGY

NON TENURE TRACK (8)

NTT3 – Dr. Gordon Gray
 NTT3 – Dr. Patricia Hansell
 NTT3 – Dr. Michael Hesson
 NTT3 – Dr. Anastasia Hudgins
 NTT3 – Dr. Heather Levi
 NTT3 – Dr. Juris Milestone *
 NTT3 – Dr. David Orr
 NTT3 – Dr. Raquel Romberg

CENTER FOR THE HUMANITIES AT TEMPLE
(CHAT)

NON TENURE TRACK (1)

NTT3 – Dr. Hilary Dick *

CRIMINAL JUSTICE

TENURE/TENURE-TRACK (16)

T1 – Dr. John Goldkamp, Chair
 T2 – Dr. Kathleen Auerhahn (USL-Spring)
 TT1 – Dr. Steven R. Belenko
 TT3 – Dr. Elizabeth Groff
 T2 – Dr. Alan Harland
 T2 – Dr. M. Kay Harris
 T2 – Dr. Philip Harris
 T2 – Dr. Matthew L. Hiller
 T2 – Dr. Peter R. Jones, Vice Provost, Undergraduate
 T1 – Dr. Jerry Ratcliffe
 T1 – Dr. George Rengert (USL-Year)
 TT3 – Dr. Caterina Roman *
 T2 – Dr. Cathryn Rosen
 T1 – Dr. R. Breck Taylor (USL-Spring)
 T1 – Dr. Wayne Welsh
 TT2 – Dr. Jennifer Dawn Wood

CRIMINAL JUSTICE

NON TENURE TRACK (8)

NTT3 – Dr. Julie Currie
NTT3 – Mrs. Cheryl Irons-Guynn, Esq.
NTT4 – Ms. Sharon Ostrow
NTT3 – Dr. Nicolette Parisi
NTT4 – Ms. Lori Pempa
NTT3 – Mr. Daniel Silverman, Esq.
NTT4 – Ms. Tara Tripp
V3 – Dr. Elena Rely Vilcica *

CRITICAL LANGUAGES

TENURE/TENURE-TRACK (2)

T2 – Dr. Barbara E. Thornbury, Chair
T2 – Dr. Louis Mangione

NON TENURE TRACK (7)

NTT4 – Ms Alexa Firat *
NTT4 – Ms. Ayala Guy
NTT3 – Dr. Shu-Chen Huang *
NTT3 – Dr. Taysir Nashif *
NTT4 – Ms. Kumi Omoto
NTT4 – Mr. Gordon Witty
NTT4 – Ms. Reiko Yoshida

ECONOMICS

TENURE/TENURE TRACK (21)

T1 – Dr. William Stull, Chair
T2 – Dr. Richard Bernstein
T1 – Dr. Erwin Blackstone
T2 – Dr. Michael Bognanno
T2 – Dr. Gary Bowman
T1 – Dr. Andrew Buck
T2 – Dr. Dimitrios Diamantaras
T1 – Dr. William Dunkelberg
T2 – Dr. Mohsen Fardmanesh
T1 – Dr. Joseph Friedman
T2 – Dr. Michael Goetz
T1 – Dr. Simon Hakim
T2 – Dr. William Holmes
T1 – Dr. Fyodor Kushnirsky
T1 – Dr. George Lady
T1 – Dr. Michael Leeds
T2 – Dr. Paul Rappaport

ECONOMICS

TENURE/TENURE TRACK (cont'd)

T1 – Dr. Ingrid Rima
T2 – Dr. John Sorrentino
T2 – Dr. Charles Swanson
TT3 – Dr. Yasemin Ulu *

NON TENURE TRACK (3)

NTT3 – Dr. George Diemer *
NTT3 – Dr. Tucker Taylor *
NTT3 – Dr. Donald Wargo

ENGLISH

TENURE/TENURE TRACK (34)

T2 – Dr. Shannon Miller, Chair
T2 – Dr. Richard D. Beards (USL-Spring)
T1 – Dr. Sheldon R. Brivic
T2 – Dr. Steven E. Cole
T1 – Dr. Samuel Delany
T2 – Dr. Jayne Drake, Vice Dean for
Academic Affairs
Director, MLA Program
T1 – Dr. Rachel Blau DuPlessis (USL-Spring)
TT3 – Dr. Talissa Ford *
T2 – Dr. Suzanne Gauch
TT3 – Dr. Oliver A. Gaycken (USL-Year)
T1 – Dr. Eli C. Goldblatt, Director,
New City Writing Center (USL - Year)
TT3 – Dr. Katherine Henry
T2 – Dr. Lynda M. Hill (FMLA)
T2 – Dr. Ralph E. Jenkins
T2 – Dr. Priya Joshi
T1 – Dr. Joyce A. Joyce
T2 – Dr. Michael W. Kaufmann, Director, ATTIC
TT3 – Dr. Sue-Im Lee
T2 – Dr. Peter M. Logan
T1 – Dr. Joan Mellen
TT3 – Ms. Nichole Miller *
T2 – Dr. Steven L. Newman
T1 – Dr. Daniel O'Hara
T1 – Dr. Miles D. Orvell
T2 – Dr. Jena Osman
T2 – Dr. Paula D. Robison
TT3 – Dr. James Salazar
T2 – Dr. Muffy E. Siegel
T1 – Dr. Alan Singer
T1 – Dr. Lawrence Venuti
T1 – Dr. Susan Wells, Director, First Year Writing
T2 – Dr. Roland L. Williams, Jr.

ENGLISH

TENURE/TENURE TRACK (cont'd)

T1 – Dr. Philip R. Yannella
T2 – Dr. Stephen C. Zelnick

ENGLISH

NON TENURE TRACK (9)

NTT3 – Dr. Geoffrey Gust
NTT3 – Dr. Elizabeth Mannion
NTT4 – Ms. Patricia McCarthy *
NTT1 – Dr. Joseph McElroy *
NTT3 – Dr. James Mellis
NTT3 – Dr. Diana Pazicky
NTT4 – Mr. Edward Sobel *
NTT3 – Dr. Gabriel Wettach
NTT3 – Dr. Catherine Wiley

FIRST YEAR WRITING

NON TENURE TRACK (32)

NTT3 – Dr. Keith Gumery, Associate Director

NTT4 – Ms. Amanda Adams *
NTT3 – Dr. Paul Benzon *
NTT3 – Dr. Gregory Byala *
NTT3 – Dr. Whitley Cooke
NTT4 – Ms. Rebecca Faught *
NTT3 – Dr. Daniel Featherston *
NTT3 – Dr. Rachael Groner
NTT3 – Dr. Lisa Grunberger
NTT3 – Dr. Kathy Houff
NTT4 – Mr. Michael Ingram
NTT3 – Dr. Deborah Karr
NTT3 – Dr. Sook Kyung Kim
NTT3 – Dr. Anne Layman-Horn
NTT3 – Dr. Joshua Lukin
NTT3 – Dr. Mary Ann Mannino
NTT3 – Dr. James Martin
NTT4 – Mr. Walter T. McAllister
NTT4 – Mr. Stanley McDonald
NTT3 – Dr. Julia Mendenhall
NTT4 – Mr. Adam Miyashiro
NTT3 – Dr. Srimati Mukherjee
NTT3 – Dr. John O'Hara
NTT3 – Dr. Christine Palumbo-DeSimone
NTT3 – Dr. Peter Puchek
NTT4 – Mr. Christopher Rothschild
NTT4 – Mr. Brian Sammons *
NTT3 – Dr. Dorothy Stringer
NTT3 – Dr. Sharon White

FIRST YEAR WRITING

NON TENURE TRACK (cont'd)

NTT3 – Dr. Gregory Winch
NTT4 – Mr. Brad Windhauser
NTT4 – Mr. Corey Zwikstra *

FRENCH/GERMAN/ITALIAN/SLAVIC

TENURE/TENURE-TRACK (6)

T2 – Dr. Wilbert J. Roget, Chair

T2 – Dr. Margaret Deviney
T2 – Dr. Mariquita G. Noris
T1 – Dr. Benjamin Rifkin
T1 – Dr. Ruth P. Thomas
T2 – Dr. Istvan Varkonyi, Director, Intellectual Heritage

NON TENURE TRACK (6)

NTT3 – Dr. Beth Curran
NTT3 – Dr. Stephanie Fiore
NTT4 – Mr. Akim Gabriel
NTT4 – Ms. Carmelo Galati *
NTT3 – Dr. Laura Spagnoli
NTT3 – Dr. Anthony Waskie

GEOGRAPHY AND URBAN STUDIES

TENURE/TENURE-TRACK (13)

T1 – Dr. Sanjoy Chakravorty, Chair

T1 – Dr. Carolyn T. Adams
T1 – Dr. David Bartelt
T1 – Dr. Roman Cybriwsky
TT3 – Dr. Jurgen Essletzbichler *
T2 – Dr. Melissa R. Gilbert (USL-Year)
T2 – Dr. Ben Kohl
T2 – Dr. Robert J. Mason, Director
Environmental Studies
T2 – Dr. Michele Masucci
T2 – Dr. Jeremy L. Mennis (USL-Spring)
T1 – Dr. Rickie Sanders, Co-Director, Women's Studies
T1 – Dr. Marilyn Silberfein
T2 – Dr. Gerald J. Stahler

NON TENURE TRACK (4)

NTT3 – Dr. Jonathan Baker
NTT3 – Dr. Susan Lucas *
NTT3 – Dr. Benjamin Neimark *
NTT4 – Mr. Deb Ranjan Sinha *

GREEK AND ROMAN CLASSICS

TENURE/TENURE TRACK (4)

T1 – Dr. Robin Mitchell-Boyask, Chair

T2 – Dr. Martha Davis

TT3 – Dr. Karen Hersch

T2 – Dr. Daniel Tompkins

NON TENURE TRACK (3)

NTT3 – Dr. Eric Kondratieff

NTT3 – Dr. Daniel Markovic

NTT3 – Dr. Laura Samponaro-Steltenpohl

HISTORY

TENURE/TENURE TRACK (38)

T1 – Dr. Andrew Isenberg, Chair

T1 – Dr. Beth Bailey

T1 – Dr. Kathleen Biddick (USL-Year)

TT3 – Dr. Seth Bruggeman * (joint appt Am. Studies)

T1 – Dr. Bettye Collier-Thomas

T1 – Dr. William W. Cutler

(Joint appt. w/College of Education)

T2 – Dr. Barbara Day-Hickman

T2 – Dr. Thi Nguyen Dieu

T2 – Dr. Michael M. Eisman

T1 – Dr. David Farber

T1 – Dr. Harriet Freidenreich

TT3 – Dr. Travis F. Glasson

T2 – Dr. Petra Goedde

T1 – Dr. Peter Gran

T1 – Dr. Mark H. Haller

T1 – Dr. James Hilty

T1 – Dr. William I. Hitchcock

T1 – Dr. Richard Immerman, Director

Center for the Humanities at Temple (CHAT)

T2 – Dr. David M. Jacobs

T2 – Dr. Wilbert Jenkins

T1 – Dr. Susan E. Klepp

TT3 – Dr. Rita Krueger

T1 – Dr. Kenneth L. Kusmer

T2 – Dr. Jay B. Lockenour

TT3 – Dr. Harvey Neptune

T1 – Dr. Arthur P. Schmidt, Jr.

T1 – Dr. Bryant Simon, Director, American Studies

T1 – Dr. Howard Spodek

(Joint Appt. w/ GUS)

TT3 – Dr. Benjamin Talton *

T2 – Dr. Teshale Tibebe

T2 – Dr. Kathleen Uno (USL-Year)

HISTORY

TENURE/TENURE TRACK (cont'd)

T1 – Dr. Gregory J.W. Urwin

T1 – Dr. Elizabeth R. Varon

T1 – Dr. Morris J. Vogel (LOA-Year)

T1 – Dr. David Waldstreicher

T2 – Dr. Kathy LeMons Walker

T2 – Dr. David Watt (USL-Year)

T2 – Dr. Vladislav M. Zubok

NON TENURE TRACK (4)

NTT3 – Dr. Friederike Baer *

NTT3 – Dr. Regina Gramer (USL-Year)

NTT3 – Dr. Stephen Patnode *

NTT3 – Dr. Ralph Young

INTELLECTUAL HERITAGE

NON TENURE TRACK (39)

NTT3 – Dr. Grant Ward, Associate Director

NTT3 – Dr. Howard Addison

NTT3 – Dr. Marcia Bailey *

NTT4 – Ms. Susan Bertolino

NTT3 – Dr. Marie Dallam *

NTT3 – Dr. Aron Dunlap*

NTT3 – Dr. John Dern

NTT3 – Dr. Kenneth Dossar

NTT4 – Ms. Ariane Fischer *

NTT3 – Dr. Maurizio Giammarco

NTT4 – Mr. Joseph Guiffre

NTT3 – Dr. Douglas Greenfield *

NTT3 – Dr. Carol Harris-Shapiro

NTT4 – Ms. Jessie Iwata

NTT3 – Dr. Stephen Jankiewicz *

NTT3 – Dr. Chang-Shin (Luke) Jih

NTT3 – Dr. Heon Choul Kim*

NTT3 – Dr. Frank Leib

NTT3 – Dr. Richard Libowitz

NTT3 – Dr. Thomas Meyer

NTT4 – Ms. Aldona Middlesworth

NTT3 – Dr. Pamela Monaco

NTT3 – Dr. Susan Morse

NTT4 – Mr. Michael Neff

NTT4 – Mr. Richard Orodnenker

NTT3 – Dr. Randall Pabich *

NTT4 – Ms. Sheila Paulos

NTT3 – Dr. Gary Pratt

NTT3 – Dr. Kristoff Prialokowski

NTT3 – Dr. David Racker

NTT3 – Dr. Stephanie Schull

INTELLECTUAL HERITAGE

NON TENURE TRACK (cont'd)

NTT3 – Dr. Judith Schwartz
NTT3 – Dr. Deborah Scott *
NTT3 – Dr. Noah Shusterman
NTT3 – Dr. Jill Sigman *
NTT3 – Dr. Tyler Smith *
NTT3 – Dr. Ivan Taub
NTT3 – Dr. Gregory Williams
NTT3 – Dr. Kimberly Wilson-Deahn

LATIN AMERICAN STUDIES PROGRAM

NON TENURE TRACK (1)

NTT4 – Mr. Ronald Webb, Director

PHILOSOPHY

TENURE/TENURE TRACK (11)

T2 – Dr. Paul Taylor, Chair
T1 – Dr. Philip A. Alperson
T1 – Dr. Charles E. Dyke
TT3 – Dr. Kristin Gjesdal (USL-Year)
T1 – Dr. Lewis R. Gordon, Director, Institute for the
Study of Race and Social Thought
T1 – Dr. Carol Gould
T1 – Dr. Joseph Margolis
T1 – Dr. Miriam Solomon
TT3 – Dr. Michael Thau
T1 – Dr. Gerald Vision
T2 – Dr. David Wolfsdorf

NON TENURE TRACK (4)

NTT3 – Dr. Paul Crowe, Advisor,
Law Scholars Program
V2 – Dr. Espen Hammer*
NTT3 – Dr. Han-Kyul Kim *
NTT3 – Dr. Aaron Smufs

POLITICAL SCIENCE

TENURE/TENURE TRACK (23)

T1 – Dr. Gary Mucciaroni, Chair
T1 – Dr. David Adamany
TT3 – Dr. Kevin T. Arceneaux
T1 – Dr. Aryeh Botwinick
TT3 – Dr. Robert Brown *
T2 – Dr. Richard E. Deeg
T1 – Dr. Barbara Ferman
TT3 – Dr. K. Orefo Fioretos

POLITICAL SCIENCE

TENURE/TENURE TRACK (cont'd)

T2 – Dr. Hawley Fogg-Davis
TT3 – Dr. Jane Gordon *
T2 – Dr. Michael Hagen
T2 – Dr. Frederick D. Herzon (FMLA)
T2 – Dr. Michael J. Hooper
T1 – Dr. Richard Joslyn, Vice Dean of
Planning
T2 – Dr. Robin Kolodny (USL-Year)
TT3 – Dr. Megan Mullin
T2 – Dr. Mark A. Pollack (USL-Year)
T2 – Dr. James M. Rogers
T2 – Dr. Joseph Schwartz
T2 – Dr. Sandra L. Suarez (USL-Year)
T2 – Dr. Conrad J. Weiler
TT3 – Dr. Ryan Vander Wielen
T1 – Dr. Christopher Wlezien

NON TENURE TRACK (5)

NTT3 – Dr. Daniel Chomsky
NTT3 – Dr. Alistair Howard
NTT4 – Mr. Gregg Lindskog *
NTT3 – Dr. John Masker
NTT3 – Dr. Omar Sanchez

PSYCHOLOGY

TENURE/TENURE TRACK (27)

T1 – Dr. Marsha Weinraub, Chair
T1 – Dr. Lauren B. Alloy
TT3 – Dr. Jason Chein
TT3 – Dr. Bradley Conner *
TT3 – Dr. Kim Curby
TT3 – Dr. Deborah Drabick
T2 – Dr. Robert Fauber
TT3 – Dr. Tania Giovannetti
T2 – Dr. Thomas Gould
T2 – Dr. Donald Hantula (USL-Spring)
T1 – Dr. Richard Heimberg (USL-Spring)
T1 – Dr. Philip N. Himeline
T1 – Dr. Kathryn A. Hirsh-Pasek
TT3 – Dr. Kareem Johnson
TT3 – Dr. Andrew Karpinski (aka Robert Todd)
T1 – Dr. Philip Kendall
T1 – Dr. David L. Margules
TT3 – Dr. Peter J. Marshall
T1 – Dr. Nora Newcombe

PSYCHOLOGY

TENURE/TENURE TRACK (cont'd)

TT3 – Dr. Ingrid Olson
T1 – Dr. Willis Overton
T2 – Dr. Thomas F. Shipley
T1 – Dr. Laurence Steinberg
T2 – Dr. Ronald D. Taylor
T1 – Dr. Robert W. Weisberg
T1 – Dr. Diana S. Woodruff-Pak
TT3 – Dr. Hongling Xie

NON TENURE TRACK (5)

NTT3 – Dr. Isabelle Chang *
NTT3 – Dr. Peggy deWolf
NTT3 – Dr. Noel Hedges
NTT3 – Dr. Peter James *
NTTC2 – Dr. Catherine Panzarella

RELIGION

TENURE/TENURE TRACK (12)

T2 – Dr. Terry Rey, Chair
TT3 – Dr. Zain Abdullah
T2 – Dr. Rebecca Alpert
T2 – Dr. Khalid Blankinship
T1 – Dr. Lucy Bregman
TT3 – Dr. Mark Leuchter *
T2 – Dr. Laura Levitt, Director, Jewish Studies
T2 – Dr. Vasiliki Limberis
T1 – Dr. Shigenori Nagatomo
T1 – Dr. John C. Raines
TT3 – Dr. Jeremy Schipper *
T1 – Dr. Leonard Swidler

NON TENURE TRACK (3)

NTT3 – Dr. William Allen
NTT3 – Dr. Monte S. Hull
NTT3 – Dr. Jacob Kim

SOCIOLOGY

TENURE/TENURE TRACK (17)

T1 – Dr. Rosario Espinal, Chair
T2 – Dr. Michelle D. Byng
T2 – Dr. Gretchen A. Condran
T1 – Dr. Kevin J. Delaney, Vice Dean for
Faculty Affairs
T2 – Dr. David Elesh
T1 – Dr. Eugene P. Ericksen
T1 – Dr. Julia Ericksen

SOCIOLOGY

TENURE/TENURE TRACK (cont'd)

T2 – Dr. Kimberly Goyette
T1 – Dr. Sherri Lynn Grasmuck
TT3 – Dr. Dustin Kidd (USL-Spring)
TT3 – Dr. Joshua Klugman
T1 – Dr. Kyriakos Kontopoulos
TT3 – Dr. Judith Levine *
T1 – Dr. Anne B. Shlay
T1 – Dr. Pablo Vila
TT3 – Dr. Matt Wray *
T1 – Dr. Shanyang Zhao

NON TENURE TRACK (12)

NTT3 – Dr. David Allen
NTT3 – Dr. Michael Altimore
NTT3 – Dr. Kimberly Barton
NTT4 – Mr. Raymond Halnon
NTT4 – Mr. Chong-Suk Han
NTT3 – Dr. Benny Marcus
NTT3 – Dr. Yuichi Moroi *
NTT3 – Dr. Geoffrey Moss *
NTT3 – Dr. Donna-Marie Peters
NTT3 – Dr. Daglind Sonolet
NTT3 – Dr. Mary Stricker
NTT3 – Dr. Joyce Weil

SPANISH AND PORTUGUESE

TENURE/TENURE TRACK (11)

T1 – Dr. Teresa Scott Soufas, Dean
T1 – Dr. Luis Gonzalez-del-Valle, Chair
T2 – Dr. Hiram Aldarondo
T2 – Dr. Jonathan Holmquist
T2 – Dr. Augusto Lorenzino, Associate Director
Center for the Humanities at Temple (CHAT)
T1 – Dr. Agnes Moncy
T1 – Dr. Hortensia Morell-Chardon
T2 – Dr. Montserrat Piera
TT3 – Dr. Sergio Ramirez Franco *
T1 – Dr. C. Christopher Soufas, Jr.*
TT3 – Dr. Paul Toth *

NON TENURE TRACK (13)

NTT4 – Ms. Silvia Alvarez-Olarra
NTT3 – Dr. Alira Ashvo-Munoz
NTT3 – Dr. Norma Corrales-Martin
NTT3 – Dr. Hope Doyle *
NTT3 – Dr. Jaime Duran
NTT3 – Dr. Marco Gomes da Silva

SPANISH AND PORTUGUESE

NON TENURE TRACK (cont'd)

NTT3 – Dr. April Jacobs

NTT3 – Dr. Hana Muzika Kahn

NTT4 – Ms. Patricia Moore-Martinez

NTT3 – Dr. Thomas Morton

NTT3 – Dr. Marcela Pardes

NTT3 – Dr. Carolyn Phipps

NTT3 – Dr. Kimberly Vega

VIETNAMESE PHILOSOPHY, SOCIETY AND CULTURE

NON TENURE TRACK (1)

NTT3 – Dr. Sophie Quinn-Judge, Associate Director

WOMEN'S STUDIES

NON TENURE TRACK (3)

NTT3 – Dr. Kristi Brian

NTT3 – Dr. Patricia Melzer, Director

NTT3 – Dr. Whitney Strub * (Joint appt. Am. Studies)

Total Faculty: T/TT = 253 and NTT = 178 Rev. 01/20/09 ekw